



BOARD OF PUBLIC WORKS DEPARTMENT OF UTILITIES

May 4, 2016

4:15 P.M.

**Fremont Municipal Building, 2nd Floor Conference Room,
400 East Military, Fremont Nebraska**

-
1. Approve minutes of April 20, 2016
 2. Consider Accounts Payable – 1st half of May 2016
 3. Review Statement of Operations and Net Position for March 2016
 4. Consider bid for a Compact Crawler Boom Lift (staff report)
 5. Consider out-of-state travel for employee training (staff report)
 6. Consider Supervisory, Control and Data Acquisition (SCADA) training proposal (staff report)
 7. Investments (staff report)
 8. General Manager Update
 - a. Unit #8 outage/repair update
 - b. Rawhide
 9. Adjournment

The agenda was posted at the Municipal Building on May 2, 2016. Enclosures are distributed to Board and Council Members only. The official current copy of the agenda is available at Municipal Building, 400 East Military, office of the General Manager. A copy of the Open Meeting Law is posted in the 2nd floor conference room for review by the public. The Board of Public Works reserves the right to adjust the order of items on this agenda.

*items referred to City Council (if any)

CITY OF FREMONT BOARD OF PUBLIC WORKS
April 20, 2016 - 4:15 P.M.

A meeting of the Board of Public Works was held on April 20, 2016 at 4:15 p.m. in the 2nd floor meeting room at 400 East Military, Fremont, Nebraska. The meeting was preceded by publicized notice in the Fremont Tribune and the agenda displayed in the Municipal Building. The meeting was open to the public. A continually current copy of the agenda was available for public inspection at the office of the General Manager, Department of Utilities, 400 East Military. The agenda was distributed to the Board of Public Works on April 18, 2016. A copy of the open meeting law is posted continually for public inspection.

Roll call showed Board Members Sawtelle, Gifford, Behrens, Vering and Shelso; 5 present, 0 absent. Others in attendance include Mayor Getzschman; Brian Newton, GM; Troy Schaben, Asst. GM; Keith Kontor, WWTP Supt.; Larry Andreasen, Water Supt.; Jeff Shanahan, LDW Supt.; Jody Sanders, Dir. Finance; Jan Rise, Admin. Services Dir.; John Hemschemeyer, Dir. H.R.; Alan Kaspar, Dir. Eng.; Dean Kavan, Stores Supt.; and Kirk Hillrichs, Gas Supt..

APPROVE MINUTES

Moved by Member Vering, seconded by Member Sawtelle to approve the minutes of the April 4, 2016 meeting. Motion carried.

CONSIDER ACCOUNTS PAYABLE – 1st HALF OF APRIL 2016

Moved by Member Shelso, seconded by Member Behrens to approve the accounts payable in the amount of \$2,361,555.71. Motion carried.

REVIEW COLLECTION REPORT FOR MARCH 2016

The board reviewed the collection report for March 2016, noting a lower amount of collection activity.

CONSIDER REQUEST FOR PROPOSAL FOR ENGINEERING SERVICES TO EXTEND WATER MAINS

Moved by Member Sawtelle, seconded by Member Vering to approve the request for proposal bid from Civil Solutions, LLC. for design services for a water main in Luther and 27th Street in the amount of \$6,000. Schaben explained the work is for an extension of service to a new building expansion on 27th Street as well as for a water connection district to loop the system to 27th and 32nd Streets. Motion carried.

CONSIDER FORMATION OF WATER CONNECTION DISTRICT

Moved by Member Shelso, seconded by Member Behrens to create a water connection district between 23rd Street and 27th and 32nd Streets and recommend approval by the City Council. Schaben explained this district would furnish water to a new building expansion on 27th Street and permit reimbursement of costs as other customers connect to the line. Motion carried.

CONSIDER EXTENDING CARE & SHARE PROGRAM AGREEMENT WITH THE FREMONT AREA UNITED WAY

Moved by Member Shelso, seconded by Member Vering to approve a 2-year extension of the Care & Share Agreement with the Fremont Area United Way. Motion carried.

INVESTMENTS

None

GENERAL MANAGER UPDATE

General Manager Newton reported hiring a $\frac{3}{4}$ time custodian to replace the two temporary custodians

for the DU building on Military Ave, and the DU received a technical grant from National Renewable Energy Laboratory (NREL) and Solar Electric Power Association (SEPA) to assist on financial modeling for a community solar farm. Attendees reported on the tour of the Cargill lagoon in Schuyler. Jeff Shanahan reported on the Lon D. Wright Unit #8 outage and reviewed problems found in the steam turbine. Due to the problems, the outage will be extended three to four weeks. Mayor Getzschman discussed Project Rawhide incentives with the Board.

Member Vering moved and Member Sawtelle seconded the motion to adjourn the meeting at 5:30 p.m. Motion carried.

Paul Gifford, Chairman

Allen Sawtelle, Secretary

Approved by:

Dennis Behrens

David Shelso

Toni Vering

EAL DESCRIPTION: EAL: 05032016 ANDERSEND
PAYMENT TYPES

Checks	Y
EFTs	Y
ePayables	Y

VOUCHER SELECTION CRITERIA

Voucher/discount due date	05/05/2016
All banks	A

REPORT SEQUENCE OPTIONS:

Vendor	X	One vendor per page? (Y,N)	N
Bank/Vendor		One vendor per page? (Y,N)	N
Fund/Dept/Div		Validate cash on hand? (Y,N)	N
Fund/Dept/Div/Element/Obj		Validate cash on hand? (Y,N)	N
Proj/Fund/Dept/Div/Elm/Obj			

This report is by: Vendor

Process by bank code? (Y,N)	Y
Print reports in vendor name sequence? (Y,N)	Y
Calendar year for 1099 withholding	2016
Disbursement year/per	2016/08
Payment date	05/03/2016

PREPARED 05/03/2016, 9:05:41
 PROGRAM: GM339L
 DEPARTMENT OF UTILITIES

EXPENDITURE APPROVAL LIST
 AS OF: 05/05/2016 PAYMENT DATE: 05/03/2016

PAGE 1

VEND NO INVOICE NO	SEQ#	VENDOR NAME VOUCHER P.O. NO NO	BNK CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0000584 20160505	00	CEI PR0505	00 05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	EFT:	145,749.34
					VENDOR TOTAL *	.00	145,749.34
0002999 20160505	00	LAUGHLIN TRUSTEE, KATHLEEN A PR0505	00 05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	162.00	
					VENDOR TOTAL *	162.00	
9999999 000058107	00	MALINE, BETH & MARK UT	00 04/27/2016	051-0000-143.00-00	MANUAL CHECK	807.41	
					VENDOR TOTAL *	807.41	
0004192 20160505	00	PAYROLL EFT DEDUCTIONS PR0505	00 05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	167,066.32	
					VENDOR TOTAL *	167,066.32	
0004760 20160428-FREM	00	SOUTHWEST POWER POOL INC	00 05/03/2016	051-5105-555.50-00	SPP Settle 04/20-04/26/16	EFT:	43,784.23
					VENDOR TOTAL *	.00	43,784.23
					EFT/EPAY TOTAL ***		189,533.57
					TOTAL EXPENDITURES ****	168,035.73	189,533.57
					GRAND TOTAL *****		357,569.30

Prepared 5/02/16, 16:57:56
Pay Date 5/05/16
Primary FIRST NATIONAL BANK

CITY OF FREMONT
Direct Deposit Register

Account Number	Employee Name	Social Security	Deposit Amount
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Final Total 249,263.65 Count 168

EAL DESCRIPTION: EAL: 05042016 ANDERSEND
 PAYMENT TYPES

Checks	Y
EFTs	Y
ePayables	Y

VOUCHER SELECTION CRITERIA

Voucher/discount due date	05/05/2016
All banks	A

REPORT SEQUENCE OPTIONS:

Vendor	X	One vendor per page? (Y,N)	N
Bank/Vendor		One vendor per page? (Y,N)	N
Fund/Dept/Div		Validate cash on hand? (Y,N)	N
Fund/Dept/Div/Element/Obj		Validate cash on hand? (Y,N)	N
Proj/Fund/Dept/Div/Elm/Obj			
This report is by: Vendor			
Process by bank code? (Y,N)	Y		
Print reports in vendor name sequence? (Y,N)	Y		
Calendar year for 1099 withholding	2016		
Disbursement year/per	2016/08		
Payment date	05/05/2016		

PREPARED 05/04/2016,11:34:43
PROGRAM: GM339L
DEPARTMENT OF UTILITIES

EXPENDITURE APPROVAL LIST
AS OF: 05/05/2016 PAYMENT DATE: 05/05/2016

PAGE 1

VEND NO	SEQ#	VENDOR NAME	INVOICE NO	VOUCHER NO	P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0004693	00	ARCH COAL SALES COMPANY INC **WIRE*	0001174332				00 05/05/2016	051-0000-152.00-00	4/30/16 13,590.50 tons	166,225.41	ONE TRAIN OF COAL
VENDOR TOTAL *										166,225.41	
0004615	00	CENTRAL PLAINS ENERGY PROJECT*WIRE*	041612A197				00 05/05/2016	057-8205-807.50-02	Apr'16 10,500 Dth	16,406.25	NATURAL GAS PURCHASE
VENDOR TOTAL *										16,406.25	
0003074	00	JACKSON SERVICES INC	20160407	PR0407			00 05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	EFT:	185.42
			20160421	PR0421			00 05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	EFT:	185.42
			567 - 043016				00 05/05/2016	051-5001-932.50-46	Apr Mats	EFT:	14.98
			567 - 043016				00 05/05/2016	051-5001-940.50-46	Apr Mops	EFT:	9.09
			567 - 043016				00 05/05/2016	051-5001-940.20-29	Apr Uniforms/Whse	EFT:	69.18
			1110 - 043016				00 05/05/2016	051-5001-932.50-46	Apr Mats/Mops/Towels	EFT:	217.64
			1110 - 043016				00 05/05/2016	051-5001-940.50-46	Apr Mats	EFT:	488.74
			567 - 043016				00 05/05/2016	051-5105-502.50-46	Apr Mats/Mops	EFT:	250.96
			567 - 043016				00 05/05/2016	051-5105-502.20-29	Apr Uniforms	EFT:	1,040.22
			1110 - 043016				00 05/05/2016	051-5105-502.50-46	Apr Mats	EFT:	606.01
			567 - 043016				00 05/05/2016	051-5205-580.20-29	Apr Uniforms/Elect Distr	EFT:	1,475.96
			567 - 043016				00 05/05/2016	051-5205-580.20-29	Apr Uniforms/Engineers	EFT:	57.04
			567 - 043016				00 05/05/2016	053-6205-583.20-29	Apr Uniforms	EFT:	274.76
			567 - 043016				00 05/05/2016	055-7105-502.20-29	Apr Uniforms	EFT:	127.18
			1110 - 043016				00 05/05/2016	055-7105-502.50-46	Apr Mats/Mops	EFT:	99.52
			567 - 043016				00 05/05/2016	057-8205-870.20-29	Apr Uniforms	EFT:	772.32
VENDOR TOTAL *										.00	5,874.44
0003136	00	NORTHERN NATURAL GAS CO *FNB WIRE*	242657 APR 2016				00 05/05/2016	057-8205-807.50-02		77,101.97	NATURAL GAS PURCHASE
VENDOR TOTAL *										77,101.97	
0001914	00	UNION PACIFIC RAILROAD	280572778				00 05/05/2016	051-0000-152.00-00	4/30/16	EFT:	213,098.99
VENDOR TOTAL *										.00	213,098.99
0003109	00	UPS	5E9752186				00 05/05/2016	051-5001-940.60-79	4/30/16 Serv Chrg Share	12.50	
			5E9752186				00 05/05/2016	051-5001-917.60-79	4/30/16 Serv Chrg Share	12.50	
			5E9752186				00 05/05/2016	053-6105-502.50-23	Water Samples	33.33	
VENDOR TOTAL *										58.33	
EFT/EPAY TOTAL ***											218,973.43
TOTAL EXPENDITURES ****										259,791.96	218,973.43
GRAND TOTAL *****											478,765.39

BPW Claims 5/04/16 \$1,480,736.23

EAL DESCRIPTION: EAL: 04262016 ANDERSEND

PAYMENT TYPES

Checks	Y
EFTs	Y
ePayables	Y

VOUCHER SELECTION CRITERIA

Voucher/discount due date	04/26/2016
All banks	A

REPORT SEQUENCE OPTIONS:

Vendor	X	One vendor per page? (Y,N)	N
Bank/Vendor		One vendor per page? (Y,N)	N
Fund/Dept/Div		Validate cash on hand? (Y,N)	N
Fund/Dept/Div/Element/Obj		Validate cash on hand? (Y,N)	N
Proj/Fund/Dept/Div/Elm/Obj			

This report is by: Vendor

Process by bank code? (Y,N)	Y
Print reports in vendor name sequence? (Y,N)	Y
Calendar year for 1099 withholding	2016
Disbursement year/per	2016/07
Payment date	04/26/2016

Electric Fund - 051

Water Fund - 053

Sewer Fund - 055

Gas Fund - 057

PROGRAM: GM339L

AS OF: 04/26/2016

PAYMENT DATE: 04/26/2016

DEPARTMENT OF UTILITIES

VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
9999999 000043985	00 UT	ANDERSEN, BONNIE J	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	561.50	
						VENDOR TOTAL *	561.50	
9999999 000070201	00 UT	BRAY, JUSTIN A	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	104.40	
						VENDOR TOTAL *	104.40	
9999999 000070275	00 UT	CARIAS, ANA M	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	117.16	
						VENDOR TOTAL *	117.16	
9999999 000038463	00 UT	CONNELLY, MELISSA A	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	51.49	
						VENDOR TOTAL *	51.49	
9999999 000012229	00 UT	COPE, SPENCER	00	04/20/2016	051-0000-143.00-00	MANUAL CHECK	1,284.40	
						VENDOR TOTAL *	1,284.40	
9999999 000002291	00 UT	KNUDSEN, SANDRA L	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	169.41	
						VENDOR TOTAL *	169.41	
9999999 000050865	00 UT	LIVING WORD FCF	00	04/25/2016	051-0000-143.00-00	MANUAL CHECK	6,778.33	Budget bill refund
						VENDOR TOTAL *	6,778.33	
9999999 000066835	00 UT	MERRITT, BLAKE L	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	76.10	
						VENDOR TOTAL *	76.10	
0004760 20160421-FREM	00	SOUTHWEST POWER POOL INC	00	04/26/2016	051-5105-555.50-00	SPP Settle 04/13-04/19/16	EFT:	42,474.68
						VENDOR TOTAL *	.00	42,474.68
0003109 5E9752176 5E9752176 5E9752176	00	UPS	00	04/26/2016 04/26/2016 04/26/2016	051-5001-940.60-79 051-5001-917.60-79 053-6105-502.50-23	4/23/16 Serv Chrg Share 4/23/16 Serv Chrg Share Water Samples	12.50 12.50 33.33	
						VENDOR TOTAL *	58.33	
9999999 000069621	00 UT	URANGO, ALFREDO M	00	04/22/2016	051-0000-143.00-00	FINAL BILL REFUND	118.43	
						VENDOR TOTAL *	118.43	
						EFT/EPAY TOTAL ***		42,474.68
						TOTAL EXPENDITURES ****	9,319.55	42,474.68
					GRAND TOTAL	*****		51,794.23

EAL DESCRIPTION: EAL: 05022016 ANDERSEND

PAYMENT TYPES

Checks	Y
EFTs	Y
ePayables	Y

VOUCHER SELECTION CRITERIA

Voucher/discount due date	05/05/2016
All banks	A

REPORT SEQUENCE OPTIONS:

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Bank/Vendor		One vendor per page? (Y,N)	N
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Fund/Dept/Div/Element/Obj		Validate cash on hand? (Y,N)	N
Proj/Fund/Dept/Div/Elm/Obj			

This report is by: Vendor

Process by bank code? (Y,N)	Y
Print reports in vendor name sequence? (Y,N)	Y
Calendar year for 1099 withholding	2016
Disbursement year/per	2016/07
Payment date	05/05/2016

PROGRAM: GM339L

AS OF: 05/05/2016

PAYMENT DATE: 05/05/2016

DEPARTMENT OF UTILITIES

VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0000959	00	ACE HARDWARE						
93770/3		PI3681	00	05/05/2016	051-5001-940.50-35	PO NUM 041343	96.37	
93869/3		PI3737	00	05/05/2016	051-5001-940.50-35	PO NUM 041343	24.56	
93843/3		PI3736	00	05/05/2016	051-5205-580.50-35	PO NUM 041343	78.07	
VENDOR TOTAL *							199.00	
0004276	00	AIRGAS USA LLC						
9050238690		PI3572	00	05/05/2016	051-5105-502.50-35	PO NUM 036774	204.16	
9050472470		PI3680	00	05/05/2016	051-5105-502.50-35	PO NUM 036774	108.88	
9050378294		PI3713	00	05/05/2016	051-5105-502.50-35	PO NUM 042208	203.71	
VENDOR TOTAL *							516.75	
0000169	00	AMERICAN PUBLIC POWER ASSOCIATION						
278582		PI3775	00	05/05/2016	051-5001-920.60-62	PO NUM 042938	EFT:	109.00
VENDOR TOTAL *							.00	109.00
0004587	00	AMERICAN UNDERGROUND SUPPLY LLC						
23283		PI3806	00	05/05/2016	051-5105-502.50-35	PO NUM 042817	1,986.70	
23283		PI3807	00	05/05/2016	051-5105-502.60-79	PO NUM 042817	201.15	
VENDOR TOTAL *							2,187.85	
0000983	00	ARPS GRAVEL & CONCRETE INC						
14165		PI3767	00	05/05/2016	055-7105-512.60-61	PO NUM 042901	150.00	
VENDOR TOTAL *							150.00	
0004904	00	ATLAS COPCO COMPRESSORS LLC						
650295		PI3535	00	05/05/2016	051-0000-153.00-00	PO NUM 042801	1,037.84	Stock for new air compressors
651224		PI3536	00	05/05/2016	051-0000-153.00-00	PO NUM 042801	2,504.92	
656578		PI3570	00	05/05/2016	051-0000-153.00-00	PO NUM 042801	2,188.85	
650295		PI3558	00	05/05/2016	051-5105-502.60-79	PO NUM 042801	100.39	
651224		PI3559	00	05/05/2016	051-5105-502.60-79	PO NUM 042801	14.88	
656578		PI3593	00	05/05/2016	051-5105-502.60-79	PO NUM 042801	36.41	
VENDOR TOTAL *							5,883.29	
0002531	00	BABCOCK & WILCOX						
BA60322186		PI3716	00	05/05/2016	051-5105-502.60-61	PO NUM 042485	EFT:	7,847.85
BA60322186		PI3717	00	05/05/2016	051-5105-502.60-61	PO NUM 042485	EFT:	976.55
VENDOR TOTAL *							.00	8,824.40
0001451	00	BAIRD HOLM LLP						
174475		PI3567	00	05/05/2016	051-5001-932.60-61	PO NUM 042917	EFT:	3,332.00
VENDOR TOTAL *							.00	3,332.00
0004396	00	BALCON						
SRV037959		PI3640	00	05/05/2016	053-6105-502.60-61	PO NUM 041840	957.65	
SRV037959		PI3641	00	05/05/2016	053-6105-502.60-61	PO NUM 041840	957.65	
VENDOR TOTAL *							1,915.30	
0004694	00	BARRACUDA NETWORKS INC						
1454979		PI3669	00	05/05/2016	051-5001-917.60-65	PO NUM 042948	624.50	

PROGRAM: GM339L

AS OF: 05/05/2016

PAYMENT DATE: 05/05/2016

DEPARTMENT OF UTILITIES

VEND NO	SEQ#	VENDOR NAME						EFT, EPAY OR
INVOICE	VOUCHER	P.O.	BNK	CHECK/DUE	ACCOUNT	ITEM	CHECK	HAND-ISSUED
NO	NO	NO		DATE	NO	DESCRIPTION	AMOUNT	AMOUNT
0004694	00	BARRACUDA NETWORKS INC						
1454979		PI3670	00	05/05/2016	051-5001-922.60-65	PO# 042948	624.50	
VENDOR TOTAL *							1,249.00	
0004558	00	BLT PLUMBING HEATING & A/C INC						
11774		PI3706	00	05/05/2016	055-7105-512.50-35	PO NUM 041389	93.95	
11774		PI3707	00	05/05/2016	055-7105-512.60-61	PO NUM 041389	105.00	
11775		PI3797	00	05/05/2016	055-7105-512.50-35	PO NUM 041389	52.50	
11775		PI3798	00	05/05/2016	055-7105-512.60-61	PO NUM 041389	315.00	
VENDOR TOTAL *							566.45	
0003545	00	BOMGAARS SUPPLY INC						
16130274		PI3541	00	05/05/2016	051-5001-940.50-35	PO NUM 041345	96.29	
16131262		PI3683	00	05/05/2016	051-5001-940.50-35	PO NUM 041345	153.57	
16131264		PI3684	00	05/05/2016	051-5001-940.50-35	PO NUM 041345	10.75	
16130532		PI3542	00	05/05/2016	051-5105-502.50-35	PO NUM 041345	32.07	
16132607		PI3630	00	05/05/2016	051-5105-502.50-35	PO NUM 041345	55.62	
16131211		PI3682	00	05/05/2016	051-5205-580.50-48	PO NUM 041345	38.31	
16130263		PI3540	00	05/05/2016	053-6105-502.50-35	PO NUM 041345	18.82	
16130603		PI3543	00	05/05/2016	055-7105-512.50-35	PO NUM 041345	99.95	
16135414		PI3782	00	05/05/2016	055-7105-512.50-35	PO NUM 041345	29.99	
VENDOR TOTAL *							535.37	
0004518	00	CAPPEL AUTO SUPPLY INC						
188519		PI3710	00	05/05/2016	051-5205-580.50-48	PO NUM 041601	138.33	
188832		PI3799	00	05/05/2016	051-5205-580.50-48	PO NUM 041601	74.84	
188721		PI3816	00	05/05/2016	051-5205-580.50-48	PO NUM 042951	394.15	
188720		PI3817	00	05/05/2016	053-6105-502.50-35	PO NUM 042960	887.76	
188264		PI3708	00	05/05/2016	055-7105-502.50-48	PO NUM 041601	34.76	
188352		PI3709	00	05/05/2016	055-7205-583.50-48	PO NUM 041601	164.72	
VENDOR TOTAL *							1,694.56	
0000584	00	CEI						
MAY 16 WC			00	05/05/2016	051-5001-905.20-29	May 2016 Worker Comp	EFT:	14,660.00
MAY 16 WC			00	05/05/2016	053-6001-905.20-29	May 2016 Worker Comp	EFT:	2,135.00
MAY 16 WC			00	05/05/2016	055-7001-905.20-29	May 2016 Worker Comp	EFT:	3,335.00
MAY 16 WC			00	05/05/2016	057-8001-905.20-29	May 2016 Worker Comp	EFT:	4,870.00
VENDOR TOTAL *							.00	25,000.00
0002675	00	CENTURYLINK						
402D250414	0416	PI3547	00	05/05/2016	051-5001-917.50-53	PO NUM 041379	294.11	
402D250414	0416	PI3548	00	05/05/2016	051-5001-922.50-53	PO NUM 041379	294.12	
402D250415	0416	PI3549	00	05/05/2016	051-5001-917.50-53	PO NUM 041379	294.12	
402D250415	0416	PI3550	00	05/05/2016	051-5001-922.50-53	PO NUM 041379	294.11	
VENDOR TOTAL *							1,176.46	
0003731	00	CRANE SALES & SERVICE						
CIT133-237613	PI3553		00	05/05/2016	051-5105-502.60-61	PO NUM 042484	30,063.48	Crane for turbine bay runway
VENDOR TOTAL *							30,063.48	
0001041	00	CRESCENT ELECTRIC SUPPLY CO (OMAHA)						

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VEND NO	SEQ#	VENDOR NAME						EFT, EPAY OR
INVOICE	VOUCHER	P.O.	BNK	CHECK/DUE	ACCOUNT	ITEM	CHECK	HAND-ISSUED
NO	NO	NO		DATE	NO	DESCRIPTION	AMOUNT	AMOUNT
0001041	00	CRESCENT ELECTRIC SUPPLY CO (OMAHA)						
S501091884-002	PI3529		00	05/05/2016	051-0000-154.00-00	PO NUM 041621	67.30	
VENDOR TOTAL *							67.30	
0000313	00	DIAMOND POWER INTERNATIONAL INC						
475054	PI3538		00	05/05/2016	051-0000-153.00-00	PO NUM 042862	3,863.98	
475054	PI3566		00	05/05/2016	051-5105-502.60-79	PO NUM 042862	11.00	
VENDOR TOTAL *							3,874.98	
0001313	00	DILLON CHEVROLET FREMONT INC, SID						
191477	PI3686		00	05/05/2016	051-5205-580.50-48	PO NUM 041350	64.64	
191554	PI3783		00	05/05/2016	053-6205-583.50-48	PO NUM 041350	138.60	
1TCS19525	PI3685		00	05/05/2016	055-7105-502.60-61	PO NUM 041350	65.00	
191476	PI3813		00	05/05/2016	055-7105-502.50-48	PO NUM 042915	512.75	
VENDOR TOTAL *							780.99	
0003091	00	DUTTON-LAINSON CO						
S83453-1	PI3534		00	05/05/2016	051-0000-154.00-00	PO NUM 042777	EFT:	98.33
734399-1	PI3569		00	05/05/2016	051-0000-154.00-00	PO NUM 042777	EFT:	745.80
735742-1	PI3626		00	05/05/2016	051-0000-154.00-00	PO NUM 042904	EFT:	10,808.71
734333-2	PI3673		00	05/05/2016	051-0000-154.00-00	PO NUM 042772	EFT:	898.80
S83450-1	PI3730		00	05/05/2016	051-0000-154.00-00	PO NUM 042777	EFT:	189.92
S83451-1	PI3731		00	05/05/2016	051-0000-154.00-00	PO NUM 042777	EFT:	501.84
VENDOR TOTAL *							.00	13,243.40
0004605	00	DXP ENTERPRISES INC						
8701917	PI3537		00	05/05/2016	051-0000-154.00-00	PO NUM 042852	EFT:	161.40
8718634	PI3625		00	05/05/2016	051-0000-154.00-00	PO NUM 042895	EFT:	323.77
8733512	PI3733		00	05/05/2016	051-0000-154.00-00	PO NUM 042852	EFT:	215.18
8701917	PI3561		00	05/05/2016	051-5001-940.60-79	PO NUM 042852	EFT:	17.74
8718634	PI3664		00	05/05/2016	051-5001-940.60-79	PO NUM 042895	EFT:	23.72
8733512	PI3761		00	05/05/2016	051-5001-940.60-79	PO NUM 042852	EFT:	9.65
VENDOR TOTAL *							.00	751.46
0003087	00	EAKES OFFICE SOLUTIONS						
6928803-0	PI3804		00	05/05/2016	051-5001-903.50-61	PO NUM 042711	40.12	
6928803-0	PI3805		00	05/05/2016	051-5001-917.50-61	PO# 042711	13.38	
6950824-0	PI3562		00	05/05/2016	051-5105-502.50-40	PO NUM 042858	41.99	
6950824-1	PI3563		00	05/05/2016	051-5105-502.50-40	PO NUM 042858	8.16	
6950824-2	PI3564		00	05/05/2016	051-5105-502.50-40	PO NUM 042858	5.83	
6950824-3	PI3565		00	05/05/2016	051-5105-502.50-40	PO NUM 042858	11.45	
VENDOR TOTAL *							120.93	
0004551	00	ELEMETAL FABRICATION LLC						
19845	PI3694		00	05/05/2016	055-7105-502.50-48	PO NUM 041366	90.31	
VENDOR TOTAL *							90.31	
0004928	00	ELLIOTTS CONTRACT CLEANING SERVICES						
339107	PI3756		00	05/05/2016	051-5105-502.60-61	PO NUM 042627	663.67	
VENDOR TOTAL *							663.67	
0001091	00	EMANUEL PRINTING INC						

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VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0001091	00	EMANUEL PRINTING INC						
7723		PI3725	00	05/05/2016	053-6205-583.50-31	PO NUM 042890	260.63	
7722		PI3726	00	05/05/2016	055-7205-583.50-31	PO NUM 042890	243.58	
VENDOR TOTAL *							504.21	
0002050	00	FASTENAL CO						
NEFRE136093		PI3675	00	05/05/2016	051-0000-154.00-00	PO NUM 042905	EFT:	225.99
NEFRE136052		PI3785	00	05/05/2016	051-5105-502.50-35	PO NUM 041351	EFT:	27.95
NEFRE136104		PI3787	00	05/05/2016	051-5105-502.50-35	PO NUM 041351	EFT:	142.13
NEFRE136051		PI3784	00	05/05/2016	055-7105-512.50-35	PO NUM 041351	EFT:	6.66
NEFRE136070		PI3786	00	05/05/2016	055-7105-512.50-35	PO NUM 041351	EFT:	41.53
NEFRE136160		PI3788	00	05/05/2016	055-7105-512.50-35	PO NUM 041351	EFT:	4.99
VENDOR TOTAL *							.00	449.25
0004503	00	FLAGSHOOTER LLC						
160216163		PI3763	00	05/05/2016	051-5205-580.50-35	PO NUM 042885	310.31	
160216163		PI3764	00	05/05/2016	057-8205-870.50-35	PO NUM 042885	310.31	
160216163		PI3765	00	05/05/2016	057-8205-870.60-79	PO NUM 042885	112.68	
VENDOR TOTAL *							733.30	
0004918	00	FLSMIDTH USA INC-TUCSON OPERATIONS						
0230522		PI3530	00	05/05/2016	051-0000-153.00-00	PO NUM 042294	516.43	
VENDOR TOTAL *							516.43	
0001111	00	FREMONT BUILDERS SUPPLY INC						
515042		PI3819	00	05/05/2016	051-5001-940.50-35	PO NUM 042998	72.92	
515042		PI3820	00	05/05/2016	051-5001-940.60-61	PO NUM 042998	150.00	
VENDOR TOTAL *							222.92	
0001131	00	FREMONT TRIBUNE						
76299		PI3551	00	05/05/2016	051-5001-932.60-78	PO NUM 041381	5.50	
VENDOR TOTAL *							5.50	
0004677	00	GOVCONNECTION INC						
53656468		PI3718	00	05/05/2016	051-5001-917.50-42	PO NUM 042823	EFT:	289.50
53656468		PI3719	00	05/05/2016	051-5001-922.50-42	PO# 042823	EFT:	289.50
53684534		PI3759	00	05/05/2016	051-5001-917.50-42	PO NUM 042823	EFT:	922.34
53684534		PI3760	00	05/05/2016	051-5001-922.50-42	PO# 042823	EFT:	922.34
VENDOR TOTAL *							.00	2,423.68
0004707	00	GREAT PLAINS COMMUNICATIONS INC						
4020010078	0416	PI3583	00	05/05/2016	051-5001-917.60-65	PO NUM 041618	250.00	
4020010078	0416	PI3584	00	05/05/2016	051-5001-922.60-65	PO# 041618	250.00	
4020010078	0416	PI3585	00	05/05/2016	051-5001-917.50-53	PO# 041618	74.50	
4020010078	0416	PI3586	00	05/05/2016	051-5001-922.50-53	PO# 041618	74.50	
4020010078	0416	PI3582	00	05/05/2016	055-7105-502.60-76	PO NUM 041618	229.00	
VENDOR TOTAL *							878.00	
0004386	00	GREAT PLAINS GOVERNMENT FINANCE						
1419		PI3821	00	05/05/2016	051-5001-917.60-62	PO NUM 043014	50.00	

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VEND NO	SEQ#	VENDOR NAME						EFT, EPAY OR
INVOICE	VOUCHER	P.O.	BNK	CHECK/DUE	ACCOUNT	ITEM	CHECK	HAND-ISSUED
NO	NO	NO		DATE	NO	DESCRIPTION	AMOUNT	AMOUNT
<hr/>								
0004386	00	GREAT PLAINS	GOVERNMENT FINANCE					
1419		PI3822	00	05/05/2016	051-5001-920.60-62	PO# 043014	50.00	
1421		PI3823	00	05/05/2016	051-5001-917.60-62	PO NUM 043014	50.00	
1421		PI3824	00	05/05/2016	051-5001-920.60-62	PO# 043014	50.00	
1429		PI3825	00	05/05/2016	051-5001-917.60-62	PO NUM 043014	75.00	
1429		PI3826	00	05/05/2016	051-5001-920.60-62	PO# 043014	75.00	
VENDOR TOTAL *							350.00	
0003155	00	HACH COMPANY						
9876198		PI3560	00	05/05/2016	053-6105-502.50-35	PO NUM 042844	106.00	
9880444		PI3595	00	05/05/2016	053-6105-502.50-35	PO NUM 042844	222.00	
VENDOR TOTAL *							328.00	
0004419	00	HANSEN TIRE LLC						
15411		PI3689	00	05/05/2016	051-5105-502.50-48	PO NUM 041355	5.80	
15411		PI3690	00	05/05/2016	051-5105-502.60-61	PO NUM 041355	25.00	
15410		PI3687	00	05/05/2016	051-5205-580.50-48	PO NUM 041355	1.58	
15410		PI3688	00	05/05/2016	051-5205-580.60-61	PO NUM 041355	15.00	
VENDOR TOTAL *							47.38	
0004469	00	HAYES MECHANICAL						
365633		PI3552	00	05/05/2016	051-5105-502.60-61	PO NUM 041395	346.87	
365634		PI3592	00	05/05/2016	051-5105-502.60-61	PO NUM 042704	522.50	
365527		PI3649	00	05/05/2016	051-5105-502.60-61	PO NUM 042794	7,617.74	
VENDOR TOTAL *							8,487.11	
0004062	00	HOUSTON & ASSOCIATES LLC						
383		PI3711	00	05/05/2016	057-8205-870.60-61	PO NUM 041703	EFT:	2,500.00
VENDOR TOTAL *							.00	2,500.00
0004188	00	HUNTEL COMMUNICATIONS						
224216		PI3596	00	05/05/2016	051-5001-917.50-42	PO NUM 042859	187.24	
224216		PI3597	00	05/05/2016	051-5001-922.50-42	PO# 042859	187.26	
224216		PI3598	00	05/05/2016	051-5001-917.60-61	PO# 042859	729.46	
224216		PI3599	00	05/05/2016	051-5001-922.60-61	PO# 042859	729.48	
224401		PI3600	00	05/05/2016	051-5001-917.50-42	PO NUM 042859	652.15	
224401		PI3601	00	05/05/2016	051-5001-922.50-42	PO# 042859	652.18	
224401		PI3602	00	05/05/2016	051-5001-917.60-61	PO# 042859	28.08	
224401		PI3603	00	05/05/2016	051-5001-922.60-61	PO# 042859	28.09	
224415		PI3604	00	05/05/2016	051-5001-917.60-61	PO NUM 042859	224.70	
224415		PI3605	00	05/05/2016	051-5001-922.60-61	PO# 042859	224.71	
224415		PI3606	00	05/05/2016	051-5001-917.50-42	PO# 042859	18.72	
224415		PI3607	00	05/05/2016	051-5001-922.50-42	PO# 042859	18.73	
224241		PI3750	00	05/05/2016	051-5001-950.80-50	PO NUM 041880	4,998.50	New VOIP telephone system
224256		PI3751	00	05/05/2016	051-5001-950.80-50	PO NUM 041880	11,559.76	
224258		PI3752	00	05/05/2016	051-5001-950.80-50	PO NUM 041880	1,728.06	
224474		PI3753	00	05/05/2016	051-5001-950.80-50	PO NUM 041880	56.18	
VENDOR TOTAL *							22,023.30	
0001167	00	HY-VEE						

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VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0001167 0003	00	HY-VEE PI3594	00	05/05/2016	051-5205-580.50-95	PO NUM 042824	42.66	
						VENDOR TOTAL *	42.66	
0004300 3542529 3542529	00	INSTRUMENT & VALVE SERVICES CO PI3714 PI3715	00	05/05/2016 05/05/2016	051-5105-502.60-61 051-5105-502.60-79	PO NUM 042243 PO NUM 042243	3,811.14 37.45	
						VENDOR TOTAL *	3,848.59	
0001426 88607	00	JEO CONSULTING GROUP INC PI3554	00	05/05/2016	051-5105-502.60-61	PO NUM 042647	EFT:	540.00
						VENDOR TOTAL *	.00	540.00
0001485 1376539-00 1376539-01 1379087-00 1376539-00 1376539-01 1380849-00 1379087-00	00	JOHN DAY COMPANY PI3531 PI3532 PI3620 PI3556 PI3557 PI3768 PI3652	00	05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016	051-0000-154.00-00 051-0000-154.00-00 051-0000-153.00-00 051-5001-940.60-79 051-5001-940.60-79 051-5001-940.50-35 051-5105-502.60-79	PO NUM 042743 PO NUM 042743 PO NUM 042829 PO NUM 042743 PO NUM 042743 PO NUM 042907 PO NUM 042829	EFT: EFT: EFT: EFT: EFT: EFT: EFT:	308.55 67.70 181.90 11.04 12.06 51.20 89.56
						VENDOR TOTAL *	.00	722.01
0003085 11114990-0 11114990-0 11115089-0	00	KELLY SUPPLY CO PI3621 PI3653 PI3571	00	05/05/2016 05/05/2016 05/05/2016	051-0000-153.00-00 051-5105-502.60-79 057-0000-154.00-00	PO NUM 042831 PO NUM 042831 PO NUM 042898	745.28 16.05 385.88	
						VENDOR TOTAL *	1,147.21	
0002902 S101289878-005 S101289878-006 S101310683-001 S101308912-001 S101226278-006 S101317975-001 S101310668.001 S101281491-002 S101314440-001 S101303285-001 S101306962-001 S101316264-001 S101307576-001 S101312248-001 S101310895-001 S101289084-001 S101310899-001 S101318047-002	00	KRIZ-DAVIS CO PI3533 PI3568 PI3627 PI3674 PI3729 PI3734 PI3781 PI3803 PI3789 PI3576 PI3612 PI3691 PI3544 PI3545 PI3555 PI3575 PI3738 PI3739	00	05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016	051-0000-154.00-00 051-0000-154.00-00 051-0000-159.00-00 051-0000-154.00-00 051-0000-154.00-00 051-0000-154.00-00 051-0000-154.00-00 051-0000-154.00-00 051-5001-940.50-35 051-5105-502.50-35 051-5205-580.50-35 051-5205-580.50-35 051-5205-580.50-35 055-7105-512.50-35 055-7105-512.50-35 055-7105-502.50-35 055-7105-512.50-35 055-7105-512.50-35 055-7105-512.50-35	PO NUM 042775 PO NUM 042775 PO NUM 042924 PO NUM 042891 PO NUM 042094 PO NUM 042994 PO NUM 042923 PO NUM 042608 PO NUM 041357 PO NUM 041357 PO NUM 042912 PO NUM 041357 PO NUM 041357 PO NUM 041357 PO NUM 042728 PO NUM 041357 PO NUM 041357 PO NUM 041357	EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT: EFT:	20.97 389.48 1,232.64 256.80 539.28 222.56 509.32 492.20 17.57 148.62 700.85 147.14 100.00 84.56 202.29 47.87 42.59 238.49
						VENDOR TOTAL *	.00	5,393.23
0004937	00	LORTON DATA INC						

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VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0004937 645	00	LORTON DATA INC PI3728	00	05/05/2016	051-5001-903.60-61	PO NUM 042969	425.00	
						VENDOR TOTAL *	425.00	
0004816 IN303784	00	LUBRICATION ENGINEERS INC PI3772	00	05/05/2016	055-7105-512.50-35	PO NUM 042920	148.75	
						VENDOR TOTAL *	148.75	
0000866 #4 341114 #2 250815	00	LUTZ DAILY & BRAIN LLC PI3573 PI3580	00	05/05/2016 05/05/2016	051-5105-502.60-61 051-5105-502.60-61	PO NUM 039395 PO NUM 041396	184.00 11,103.21	Inspection of deaerator tank and final report on root cause
						VENDOR TOTAL *	11,287.21	
0002945 30247486	00	LYMAN RICHEY SAND & GRAVEL CO PI3792	00	05/05/2016	053-6205-583.50-35	PO NUM 041360	127.86	
						VENDOR TOTAL *	127.86	
0002052 13247481 13224382 13224462 13247525 13247477	00	MATHESON LINWELD PI3776 PI3631 PI3632 PI3791 PI3790	00	05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016	051-5001-940.50-35 051-5105-502.50-35 051-5105-502.50-35 051-5105-502.50-35 051-5205-580.60-76	PO NUM 042943 PO NUM 041359 PO NUM 041359 PO NUM 041359 PO NUM 041359	EFT: EFT: EFT: EFT: EFT:	139.90 21.61 141.99 55.96 138.40
						VENDOR TOTAL *	.00	497.86
0001469 438645	00	MCGRATH NORTH MULLIN & KRATZ PI3629	00	05/05/2016	051-5105-502.60-61	PO NUM 041300	17,153.00	Legal fees - Clyde Bergman (\$109,287 pd YTD)
						VENDOR TOTAL *	17,153.00	
0001229 04589 04840 04965 04510 02026 04815 04587 04825 04634 03902	00	MENARDS - FREMONT PI3539 PI3676 PI3692 PI3577 PI3587 PI3815 PI3546 PI3616 PI3740 PI3793	00	05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016 05/05/2016	051-0000-154.00-00 051-0000-154.00-00 051-5001-940.50-35 051-5105-502.50-35 051-5105-502.50-35 051-5105-502.50-35 055-7105-512.50-35 055-7105-512.50-35 055-7105-512.50-35 055-7105-512.50-35 055-7105-512.50-35	PO NUM 042908 PO NUM 042908 PO NUM 041361 PO NUM 041361 PO NUM 042326 PO NUM 042935 PO NUM 041361 PO NUM 042933 PO NUM 041361 PO NUM 041361	146.19 23.91 118.52 28.77 279.55 2,038.48 46.39 176.49 42.88 38.88	
						VENDOR TOTAL *	2,940.06	
0002960 5522443 5522443	00	MIDLAND SCIENTIFIC INC PI3808 PI3809	00	05/05/2016 05/05/2016	051-5105-502.50-35 051-5105-502.60-79	PO NUM 042863 PO NUM 042863	33.74 18.08	
						VENDOR TOTAL *	51.82	
0001486 NE01-440315 NE-01440959	00	MOTION INDUSTRIES INC PI3608 PI3645	00	05/05/2016 05/05/2016	051-5105-502.50-35 051-5105-502.50-35	PO NUM 042886 PO NUM 042679	79.60 1,878.56	

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VEND NO	SEQ#	VENDOR NAME						EFT, EPAY OR
INVOICE	VOUCHER	P.O.	BNK	CHECK/DUE	ACCOUNT	ITEM	CHECK	HAND-ISSUED
NO	NO	NO		DATE	NO	DESCRIPTION	AMOUNT	AMOUNT
<hr/>								
0001486	00	MOTION INDUSTRIES INC						
NE-01440959	PI3646		00	05/05/2016	051-5105-502.60-79	PO NUM 042679	199.24	
NE01-440946	PI3654		00	05/05/2016	051-5105-502.50-35	PO NUM 042835	232.77	
NE01-440464	PI3724		00	05/05/2016	051-5105-502.50-35	PO NUM 042886	99.44	
NE01-440943	PI3623		00	05/05/2016	055-0000-154.00-00	PO NUM 042851	584.10	
NE01-440943	PI3657		00	05/05/2016	055-7105-512.50-35	PO NUM 042851	19.16	
						VENDOR TOTAL *	3,092.87	
0002985	00	MSC INDUSTRIAL SUPPLY CO INC						
C65260866	PI3677		00	05/05/2016	051-0000-154.00-00	PO NUM 042911	353.28	
65260876	PI3678		00	05/05/2016	051-0000-154.00-00	PO NUM 042911	18.05	
						VENDOR TOTAL *	371.33	
0000746	00	MUELLER CO						
3291000	PI3588		00	05/05/2016	057-8205-870.50-35	PO NUM 042470	166.88	
3291000	PI3589		00	05/05/2016	057-8205-870.60-79	PO NUM 042470	8.30	
						VENDOR TOTAL *	175.18	
0001755	00	NATIONAL EVERYTHING WHOLESALE						
118387-01	PI3720		00	05/05/2016	051-5105-502.50-35	PO NUM 042846	EFT:	271.98
						VENDOR TOTAL *	.00	271.98
0003057	00	NEBR DEPT OF ENVIRONMENTAL QUALITY						
WWTF2016 PERRY	PI3611		00	05/05/2016	055-7105-502.60-77	PO NUM 042902	150.00	
WWTF2016 RUSS	KPI3666		00	05/05/2016	055-7105-502.60-77	PO NUM 042902	150.00	
						VENDOR TOTAL *	300.00	
0003057	00	NEBR DEPT OF ENVIRONMENTAL QUALITY,CK GRP-1						
NDEQ'16 JEFF S	PI3777		00	05/05/2016	051-5105-502.60-62	PO NUM 042989	45.00	
NDEQ'16 SCHABEN	PI3779		00	05/05/2016	051-5105-502.60-62	PO NUM 042989	45.00	
NDEQ'16 SEDLACEK	PI3780		00	05/05/2016	051-5105-502.60-62	PO NUM 042989	45.00	
NDEQ'16 KONTOR	PI3778		00	05/05/2016	055-7105-502.60-62	PO NUM 042989	45.00	
						VENDOR TOTAL *	180.00	
0001958	00	NEBR PUBLIC HEALTH ENVIRONMENTAL						
474728	PI3643		00	05/05/2016	053-6105-502.60-61	PO NUM 041892	EFT:	664.00
						VENDOR TOTAL *	.00	664.00
0001430	00	NEBR RURAL WATER ASSN						
041216 SEDLACEK	PI3590		00	05/05/2016	051-5105-502.60-62	PO NUM 042659	375.00	
						VENDOR TOTAL *	375.00	
0001710	00	NUTS & BOLTS INC						
531131	PI3622		00	05/05/2016	051-0000-153.00-00	PO NUM 042838	220.42	
						VENDOR TOTAL *	220.42	
0002937	00	O'KEEFE ELEVATOR CO INC						
00439694	PI3800		00	05/05/2016	051-5001-932.60-61	PO NUM 041658	184.66	
00439694	PI3801		00	05/05/2016	051-5105-502.60-61	PO NUM 041658	1,046.44	
						VENDOR TOTAL *	1,231.10	
0001020	00	O'REILLY AUTOMOTIVE INC						

PROGRAM: GM339L

AS OF: 05/05/2016

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DEPARTMENT OF UTILITIES

VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0001020	00	O'REILLY AUTOMOTIVE INC						
0397-365000	PI3794		00	05/05/2016	051-5001-940.50-35	PO NUM 041364	14.32	
0397-362840	PI3578		00	05/05/2016	051-5205-580.50-35	PO NUM 041364	23.28	
0397-362906	PI3693		00	05/05/2016	051-5205-580.50-48	PO NUM 041364	86.39	
VENDOR TOTAL *							123.99	
0002888	00	OFFICENET						
826063-0	PI3609		00	05/05/2016	051-5001-940.50-40	PO NUM 042894	134.98	
826063-0	PI3610		00	05/05/2016	051-5001-940.50-40	PO NUM 042894	31.35	
826843-0	PI3773		00	05/05/2016	051-5001-940.50-40	PO NUM 042930	92.27	
826843-0	PI3774		00	05/05/2016	051-5001-940.50-61	PO NUM 042930	383.91	
VENDOR TOTAL *							642.51	
0004910	00	OHIO LUMEX CO INC						
COF041916T	PI3755		00	05/05/2016	051-5105-502.60-61	PO NUM 042595	848.00	
VENDOR TOTAL *							848.00	
0001912	00	OMAHA PUBLIC POWER DISTRICT						
CSB000507	PI3628		00	05/05/2016	051-5305-560.60-61	PO NUM 040993	EFT:	38,688.31
VENDOR TOTAL *							.00	38,688.31
0002946	00	OMAHA PUBLIC POWER DISTRICT						
1115740525	0416		00	05/05/2016	051-5305-560.60-76	Apr 2016 Interconnection	EFT:	4,228.22
7281943133	0416	PI3574	00	05/05/2016	055-7105-502.60-71	PO NUM 040582	EFT:	30.16
0128000051	0416	PI3581	00	05/05/2016	057-8205-870.60-61	PO NUM 041567	EFT:	40.74
VENDOR TOTAL *							.00	4,299.12
0001624	00	OMAHA VALVE & FITTING CO						
4132724	PI3721		00	05/05/2016	051-5105-502.50-35	PO NUM 042847	313.52	
VENDOR TOTAL *							313.52	
0004320	00	OPACITY CERTIFICATION SERVICES LLC						
4545	PI3591		00	05/05/2016	051-5105-502.60-61	PO NUM 042700	222.05	
VENDOR TOTAL *							222.05	
0001268	00	P & H ELECTRIC INC						
114752	PI3613		00	05/05/2016	051-5001-932.50-35	PO NUM 042918	603.21	
114752	PI3614		00	05/05/2016	051-5001-932.60-61	PO NUM 042918	208.65	
114752	PI3615		00	05/05/2016	051-5001-932.60-79	PO NUM 042918	10.70	
114768	PI3579		00	05/05/2016	055-7105-512.50-35	PO NUM 041365	210.65	
114776	PI3633		00	05/05/2016	055-7105-512.50-35	PO NUM 041365	12.00	
VENDOR TOTAL *							1,045.21	
0004935	00	PB&J WELDING SUPPLY						
10006	PI3762		00	05/05/2016	051-5001-940.50-35	PO NUM 042869	763.98	
VENDOR TOTAL *							763.98	
0003827	00	PEST PRO'S INC						
MNCPBLD 041916	PI3746		00	05/05/2016	051-5001-932.60-61	PO NUM 041635	42.80	
ASH MONO 0416	PI3735		00	05/05/2016	051-5105-502.60-61	PO NUM 040565	48.15	

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DEPARTMENT OF UTILITIES

VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0003827	00	PEST PRO'S INC						
ASH PD 0416	PI3747		00	05/05/2016	051-5105-502.60-61	PO NUM 041667	48.15	
CMBT TUR 0416	PI3748		00	05/05/2016	051-5105-502.60-61	PO NUM 041667	53.50	
PWR PLT 0416	PI3749		00	05/05/2016	051-5105-502.60-61	PO NUM 041667	85.60	
SUBSTA 041816	PI3743		00	05/05/2016	051-5205-580.60-61	PO NUM 041619	190.35	
WTR PLT 041916	PI3744		00	05/05/2016	053-6105-502.60-61	PO NUM 041620	69.55	
WST WTR 042516	PI3745		00	05/05/2016	055-7105-502.60-61	PO NUM 041634	110.00	
VENDOR TOTAL *							648.10	
0002919	00	PLATTE VALLEY EQUIPMENT LLC						
539614	PI3695		00	05/05/2016	051-5001-940.50-35	PO NUM 041367	110.74	
VENDOR TOTAL *							110.74	
0004885	00	PRISM SMART SOLUTIONS						
1098	PI3638		00	05/05/2016	051-5001-932.60-65	PO NUM 041672	90.00	
VENDOR TOTAL *							90.00	
0003639	00	R&S TRACK MAINTENANCE INC						
016117	PI3757		00	05/05/2016	051-5105-502.50-35	PO NUM 042654	EFT:	6,830.00
016117	PI3758		00	05/05/2016	051-5105-502.60-61	PO NUM 042654	EFT:	4,500.00
VENDOR TOTAL *							.00	11,330.00
0004906	00	RADIOSHACK						
034814	PI3802		00	05/05/2016	051-5001-940.50-35	PO NUM 042517	74.87	
VENDOR TOTAL *							74.87	
0002876	00	RAWHIDE CHEMOIL INC						
756645	PI3656		00	05/05/2016	053-6105-502.50-30	PO NUM 042848	600.37	
VENDOR TOTAL *							600.37	
0003790	00	RIEKES EQUIPMENT CO						
SRV0221054	PI3696		00	05/05/2016	051-5001-940.60-61	PO NUM 041369	71.70	
SRV0221059	PI3697		00	05/05/2016	051-5001-940.50-35	PO NUM 041369	41.74	
SRV0221059	PI3698		00	05/05/2016	051-5001-940.60-61	PO NUM 041369	81.33	
SRV0221062	PI3699		00	05/05/2016	051-5001-940.50-35	PO NUM 041369	9.84	
SRV0221062	PI3700		00	05/05/2016	051-5001-940.60-61	PO NUM 041369	71.69	
SRV0221063	PI3701		00	05/05/2016	051-5001-940.50-35	PO NUM 041369	6.22	
SRV0221063	PI3702		00	05/05/2016	051-5001-940.60-61	PO NUM 041369	71.68	
SRV0221065	PI3703		00	05/05/2016	051-5001-940.50-35	PO NUM 041369	82.37	
SRV0221065	PI3704		00	05/05/2016	051-5001-940.60-61	PO NUM 041369	105.93	
SRV0221067	PI3705		00	05/05/2016	051-5001-940.60-61	PO NUM 041369	71.70	
VENDOR TOTAL *							614.20	
0004686	00	S T COTTER TURBINE SERVICES INC						
2016150	PI3818		00	05/05/2016	051-5105-502.60-61	PO NUM 042978	24,586.13	Turbine opening and inspection on Unit 8
VENDOR TOTAL *							24,586.13	
0004639	00	SAPP BROS INC						
22150358	PI3665		00	05/05/2016	051-5001-917.50-30	PO NUM 042897	14,902.59	Gasboy fuel purchase
VENDOR TOTAL *							14,902.59	
0003291	00	SEALS & SERVICE INC						

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DEPARTMENT OF UTILITIES

VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0003291	00	SEALS & SERVICE INC						
52173		PI3667	00	05/05/2016	055-7105-502.50-48	PO NUM 042922	386.50	
52173		PI3668	00	05/05/2016	055-7105-502.60-61	PO NUM 042922	255.00	
						VENDOR TOTAL *	641.50	
0001883	00	SECURITY EQUIPMENT INC						
312255		PI3754	00	05/05/2016	051-5105-502.60-65	PO NUM 042040	EFT:	921.28
						VENDOR TOTAL *	.00	921.28
0002649	00	SENSIT TECHNOLOGIES LLC						
0224742-IN		PI3769	00	05/05/2016	057-8205-870.50-35	PO NUM 042916	11.00	
0224742-IN		PI3770	00	05/05/2016	057-8205-870.60-61	PO NUM 042916	120.00	
0224742-IN		PI3771	00	05/05/2016	057-8205-870.60-79	PO NUM 042916	26.08	
						VENDOR TOTAL *	157.08	
0003036	00	SHAFFER COMMUNICATIONS INC						
16-0573		PI3648	00	05/05/2016	051-5205-580.50-35	PO NUM 042786	2,362.56	
						VENDOR TOTAL *	2,362.56	
0004273	00	SHRED MONSTER INC						
21494		PI3639	00	05/05/2016	051-5001-932.60-61	PO NUM 041684	58.00	
						VENDOR TOTAL *	58.00	
0000780	00	SHUTTLEWAGON INC						
031379		PI3650	00	05/05/2016	051-5105-502.50-48	PO NUM 042814	331.52	
031379		PI3651	00	05/05/2016	051-5105-502.60-61	PO NUM 042814	2,457.89	
						VENDOR TOTAL *	2,789.41	
0000429	00	SKARSHAUG TESTING LABORATORY INC						
207947		PI3634	00	05/05/2016	051-5205-580.60-61	PO NUM 041372	394.25	
207947		PI3635	00	05/05/2016	051-5205-580.60-79	PO NUM 041372	117.21	
						VENDOR TOTAL *	511.46	
0003415	00	SNAP-ON INDUSTRIAL						
ARV/28670137		PI3661	00	05/05/2016	051-5001-940.50-35	PO NUM 042871	451.95	
						VENDOR TOTAL *	451.95	
0002023	00	SOLUTIONONE						
444928		PI3642	00	05/05/2016	051-5001-903.60-65	PO NUM 041845	138.78	
445207		PI3712	00	05/05/2016	051-5001-903.60-65	PO NUM 041845	42.80	
						VENDOR TOTAL *	181.58	
0004338	00	SOUTHEAST COMMUNITY COLLEGE						
12225		PI3644	00	05/05/2016	051-5105-502.60-62	PO NUM 042396	540.00	
						VENDOR TOTAL *	540.00	
0003923	00	STATE OF NEBRASKA - CELLULAR						
1006882			00	05/05/2016	051-5001-903.50-53	Cellular	105.03	
1006882			00	05/05/2016	051-5105-502.50-53	Cellular	181.14	
1006882			00	05/05/2016	051-5205-580.50-53	Engineers Cellular	380.88	

PROGRAM: GM339L

AS OF: 05/05/2016

PAYMENT DATE: 05/05/2016

DEPARTMENT OF UTILITIES

VEND NO INVOICE NO	SEQ# VOUCHER NO	VENDOR NAME P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0003923	00	STATE OF NEBRASKA - CELLULAR						
1006882			00	05/05/2016	051-5205-580.50-53	Elect Distr Cellular	355.80	
1006882			00	05/05/2016	053-6205-583.50-53	Cellular	164.76	
1006882			00	05/05/2016	055-7105-502.50-53	Cellular	23.34	
1006882			00	05/05/2016	057-8205-870.50-53	Cellular	210.56	
VENDOR TOTAL *							1,421.51	
0004647	00	T SQUARE SUPPLY LLC						
12819		PI3795	00	05/05/2016	051-5001-940.50-35	PO NUM 041374	107.00	
12916		PI3796	00	05/05/2016	051-5001-940.50-35	PO NUM 041374	139.89	
12640		PI3636	00	05/05/2016	051-5105-502.50-35	PO NUM 041374	10.70	
VENDOR TOTAL *							257.59	
0004552	00	TITAN MACHINERY INC						
7537725	GP	PI3637	00	05/05/2016	051-5105-502.50-48	PO NUM 041377	EFT:	53.42
VENDOR TOTAL *							.00	53.42
0004281	00	TURBO PARTS LLC						
622405		PI3624	00	05/05/2016	051-0000-153.00-00	PO NUM 042888	7,142.25	
622490		PI3679	00	05/05/2016	051-0000-153.00-00	PO NUM 042937	301.74	
622405		PI3662	00	05/05/2016	051-5105-502.60-79	PO NUM 042888	108.50	
622490		PI3727	00	05/05/2016	051-5105-502.60-79	PO NUM 042937	15.94	
VENDOR TOTAL *							7,568.43	
0004421	00	UNMC CENTER CONTINUING EDUCATION						
042216		PI3810	00	05/05/2016	055-7105-502.60-77	PO NUM 042874	100.00	
VENDOR TOTAL *							100.00	
0003739	00	WALTRON BULL & ROBERTS LLC						
INV7525		PI3722	00	05/05/2016	051-5105-502.50-52	PO NUM 042872	2,514.56	
INV7525		PI3723	00	05/05/2016	051-5105-502.60-79	PO NUM 042872	21.36	
VENDOR TOTAL *							2,535.92	
0004336	00	WATERLINK INC						
9488		PI3426	00	05/05/2016	051-5105-502.50-52	PO NUM 042878	1,537.64-	
9596		PI3647	00	05/05/2016	051-5105-502.50-52	PO NUM 042708	2,161.40	
9594		PI3658	00	05/05/2016	051-5105-502.50-52	PO NUM 042864	2,474.72	Chemicals
9594		PI3659	00	05/05/2016	051-5105-502.50-52	PO NUM 042864	367.22	for
9595		PI3660	00	05/05/2016	051-5105-502.50-52	PO NUM 042864	20,967.72	water lab at Plant II
VENDOR TOTAL *							24,433.42	
0000482	00	WESCO RECEIVABLES CORP						
691761		PI3617	00	05/05/2016	051-0000-154.00-00	PO NUM 042785	95.23	
692327		PI3618	00	05/05/2016	051-0000-154.00-00	PO NUM 042785	40.66	
693333		PI3619	00	05/05/2016	051-0000-154.00-00	PO NUM 042785	2,483.04	
669079/695844		PI3671	00	05/05/2016	051-0000-154.00-00	PO NUM 042455	89.08	
682417		PI3672	00	05/05/2016	051-0000-154.00-00	PO NUM 042455	77.04	
693818		PI3732	00	05/05/2016	051-0000-154.00-00	PO NUM 042785	25.95	
692657		PI3663	00	05/05/2016	051-5205-580.50-35	PO NUM 042893	449.40	
VENDOR TOTAL *							3,260.40	
0002791	00	YRC FREIGHT						

VEND NO	SEQ#	VENDOR NAME							EFT, EPAY OR
INVOICE	VOUCHER	P.O.	BNK	CHECK/DUE	ACCOUNT	ITEM	CHECK	HAND-ISSUED	
NO	NO	NO		DATE	NO	DESCRIPTION	AMOUNT	AMOUNT	
<hr/>									
0002791	00	YRC FREIGHT							
381-221711-5	PI3655		00	05/05/2016	051-5105-502.60-79	PO NUM 042836	221.73		
381-221724-3	PI3766		00	05/05/2016	051-5105-502.60-79	PO NUM 042896	238.72		
381-221106-5	PI3814		00	05/05/2016	051-5105-502.60-79	PO NUM 042929	356.54		
VENDOR TOTAL *							816.99		
0002753	00	ZEP SALES & SERVICE							
9002210723	PI3811		00	05/05/2016	055-7205-583.50-35	PO NUM 042914	646.40		
9002210723	PI3812		00	05/05/2016	055-7205-583.60-79	PO NUM 042914	58.90		
VENDOR TOTAL *							705.30		
EFT/EPAY TOTAL ***								120,014.40	
TOTAL EXPENDITURES ****							223,329.26	120,014.40	
GRAND TOTAL *****								343,343.66	

EAL DESCRIPTION: EAL: 05032016 ANDERSEND
 PAYMENT TYPES

Checks Y
 EFTs Y
 ePayables Y

VOUCHER SELECTION CRITERIA
 Voucher/discount due date 05/05/2016
 All banks A

REPORT SEQUENCE OPTIONS:
 Vendor X One vendor per page? (Y,N) N
 Bank/Vendor One vendor per page? (Y,N) N
 Fund/Dept/Div Validate cash on hand? (Y,N) N
 Fund/Dept/Div/Element/Obj Validate cash on hand? (Y,N) N
 Proj/Fund/Dept/Div/Elm/Obj
 This report is by: Vendor
 Process by bank code? (Y,N) Y
 Print reports in vendor name sequence? (Y,N) Y
 Calendar year for 1099 withholding 2016
 Disbursement year/per 2016/08
 Payment date 05/03/2016

PREPARED 05/03/2016, 9:05:41
PROGRAM: GM339L
DEPARTMENT OF UTILITIES

EXPENDITURE APPROVAL LIST
AS OF: 05/05/2016 PAYMENT DATE: 05/03/2016

PAGE 1

VEND NO	SEQ#	VENDOR NAME	BNK	CHECK/DUE	ACCOUNT	ITEM	CHECK	EFT, EPAY OR
INVOICE		VOUCHER P.O.		DATE	NO	DESCRIPTION	AMOUNT	HAND-ISSUED
NO		NO NO						AMOUNT
0000584	00	CEI						
20160505		PR0505	00	05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	EFT:	145,749.34
						VENDOR TOTAL *	.00	145,749.34
0002999	00	LAUGHLIN TRUSTEE, KATHLEEN A						
20160505		PR0505	00	05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	162.00	
						VENDOR TOTAL *	162.00	
9999999	00	MALINE, BETH & MARK						
000058107		UT	00	04/27/2016	051-0000-143.00-00	MANUAL CHECK	807.41	
						VENDOR TOTAL *	807.41	
0004192	00	PAYROLL EFT DEDUCTIONS						
20160505		PR0505	00	05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	167,066.32	
						VENDOR TOTAL *	167,066.32	
0004760	00	SOUTHWEST POWER POOL INC						
20160428-FREM			00	05/03/2016	051-5105-555.50-00	SPP Settle 04/20-04/26/16	EFT:	43,784.23
						VENDOR TOTAL *	.00	43,784.23
						EFT/EPAY TOTAL ***		189,533.57
						TOTAL EXPENDITURES ****	168,035.73	189,533.57
						GRAND TOTAL *****		357,569.30

Prepared 5/02/16, 16:57:56
Pay Date 5/05/16
Primary FIRST NATIONAL BANK

CITY OF FREMONT
Direct Deposit Register

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Program PR530I

Account Number	Employee Name	Social Security	Deposit Amount
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Final Total	249,263.65	Count	168
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EAL DESCRIPTION: EAL: 05042016 ANDERSEND
 PAYMENT TYPES

Checks	Y
EFTs	Y
ePayables	Y

VOUCHER SELECTION CRITERIA

Voucher/discount due date	05/05/2016
All banks	A

REPORT SEQUENCE OPTIONS:

Vendor	X	One vendor per page? (Y,N)	N
Bank/Vendor		One vendor per page? (Y,N)	N
Fund/Dept/Div		Validate cash on hand? (Y,N)	N
Fund/Dept/Div/Element/Obj		Validate cash on hand? (Y,N)	N
Proj/Fund/Dept/Div/Elm/Obj			
This report is by: Vendor			
Process by bank code? (Y,N)	Y		
Print reports in vendor name sequence? (Y,N)	Y		
Calendar year for 1099 withholding	2016		
Disbursement year/per	2016/08		
Payment date	05/05/2016		

PREPARED 05/04/2016,11:34:43
 PROGRAM: GM339L
 DEPARTMENT OF UTILITIES

EXPENDITURE APPROVAL LIST
 AS OF: 05/05/2016 PAYMENT DATE: 05/05/2016

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VEND NO	SEQ#	VENDOR NAME	INVOICE NO	VOUCHER NO	P.O. NO	BNK	CHECK/DUE DATE	ACCOUNT NO	ITEM DESCRIPTION	CHECK AMOUNT	EFT, EPAY OR HAND-ISSUED AMOUNT
0004693	00	ARCH COAL SALES COMPANY INC **WIRE*									
0001174332						00	05/05/2016	051-0000-152.00-00	4/30/16 13,590.50 tons	166,225.41	ONE TRAIN OF COAL
									VENDOR TOTAL *	166,225.41	
0004615	00	CENTRAL PLAINS ENERGY PROJECT*WIRE*									
041612A197						00	05/05/2016	057-8205-807.50-02	Apr'16 10,500 Dth	16,406.25	NATURAL GAS PURCHASE
									VENDOR TOTAL *	16,406.25	
0003074	00	JACKSON SERVICES INC									
20160407		PR0407				00	05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	EFT:	185.42
20160421		PR0421				00	05/05/2016	051-0000-241.00-00	PAYROLL SUMMARY	EFT:	185.42
567 - 043016						00	05/05/2016	051-5001-932.50-46	Apr Mats	EFT:	14.98
567 - 043016						00	05/05/2016	051-5001-940.50-46	Apr Mops	EFT:	9.09
567 - 043016						00	05/05/2016	051-5001-940.20-29	Apr Uniforms/Whse	EFT:	69.18
1110 - 043016						00	05/05/2016	051-5001-932.50-46	Apr Mats/Mops/Towels	EFT:	217.64
1110 - 043016						00	05/05/2016	051-5001-940.50-46	Apr Mats	EFT:	488.74
567 - 043016						00	05/05/2016	051-5105-502.50-46	Apr Mats/Mops	EFT:	250.96
567 - 043016						00	05/05/2016	051-5105-502.20-29	Apr Uniforms	EFT:	1,040.22
1110 - 043016						00	05/05/2016	051-5105-502.50-46	Apr Mats	EFT:	606.01
567 - 043016						00	05/05/2016	051-5205-580.20-29	Apr Uniforms/Elect Distr	EFT:	1,475.96
567 - 043016						00	05/05/2016	051-5205-580.20-29	Apr Uniforms/Engineers	EFT:	57.04
567 - 043016						00	05/05/2016	053-6205-583.20-29	Apr Uniforms	EFT:	274.76
567 - 043016						00	05/05/2016	055-7105-502.20-29	Apr Uniforms	EFT:	127.18
1110 - 043016						00	05/05/2016	055-7105-502.50-46	Apr Mats/Mops	EFT:	99.52
567 - 043016						00	05/05/2016	057-8205-870.20-29	Apr Uniforms	EFT:	772.32
									VENDOR TOTAL *	.00	5,874.44
0003136	00	NORTHERN NATURAL GAS CO *FNB WIRE*									
242657 APR 2016						00	05/05/2016	057-8205-807.50-02		77,101.97	NATURAL GAS PURCHASE
									VENDOR TOTAL *	77,101.97	
0001914	00	UNION PACIFIC RAILROAD									
280572778						00	05/05/2016	051-0000-152.00-00	4/30/16	EFT:	213,098.99
									VENDOR TOTAL *	.00	213,098.99
0003109	00	UPS									
5E9752186						00	05/05/2016	051-5001-940.60-79	4/30/16 Serv Chrg Share	12.50	
5E9752186						00	05/05/2016	051-5001-917.60-79	4/30/16 Serv Chrg Share	12.50	
5E9752186						00	05/05/2016	053-6105-502.50-23	Water Samples	33.33	
									VENDOR TOTAL *	58.33	
									EFT/EPAY TOTAL ***		218,973.43
									TOTAL EXPENDITURES ****	259,791.96	218,973.43
									GRAND TOTAL *****		478,765.39

BPW Claims 5/04/16 \$1,480,736.23

STAFF REPORT

TO: Board of Public Works
Brian Newton, Utilities General Manager

FROM: Jody Sanders, Director of Finance

DATE: May 2, 2016

SUBJECT: Statement of Operations and Net Position for March 2016

Recommendation: Review Statement of Operations and Net Position for March 2016

Background: The financial and operating statements for March are presented for your review. This month represents the six-month mark of the City's fiscal year, and the reports include "true-ups" of a number of items that are adjusted quarterly, semi-annually, or annually. Between the additional balancing and the outage at the power plant, the reports were delayed from the last meeting in April until this meeting.

Fiscal Impact:

Electric Fund:

Finance Activity: Year to date (YTD) this fund has recognized 55% of the Change in Net Position (or profit) budgeted for the fiscal year. Off system sales account for nearly all of the difference in YTD revenues. Accrued depreciation for the Air Quality Control System (AQCS) at \$110,000 per month for 4.5 months has added \$495,000 in YTD expenses, offset somewhat by the reduction in fuel expense caused by the reduction in off system sales. On a current month basis, residential consumption was down 15% compared to the prior year, accounting for \$142,000 of the dip in March operating revenues. AQCS depreciation and some timing differences result in operating expenses of \$150,000 more than 2015.

E-1: The Spring Outage on Unit 8 began March 25, and the Plant generated 5,570 fewer MWs than March 2015. Fuel costs compared to the prior year reflect this difference.

E-2: Cash balance continues to climb, as payments on the AQCS project have temporarily stopped and coal purchases have not yet begun for the year. Payments for the outage costs generally lag two or three months, so this inflow of cash will be moving out when those invoices arrive. I withdrew \$500,000 from a money market, and used \$1,500,000 in other cash to purchase an additional \$2,000,000 certificate of deposit investment in March.

Water Fund:

Finance Activity: YTD this fund has recognized only 40% of the budgeted Change in Net Position for 2016; however, results are much improved from 2015 YTD. Variances to last year are generally the result of timing difference, such was a portion of the well field rent (\$18,000) received in March in 2016, compared to September in 2015, or other expenses paid in March 2016 that were paid in April 2015.

W-1: Water pumped in March was down compared to last year, and it appears that once again more water was billed in March than was pumped in February.

W-2: Cash increased \$127,547 for the period.

Staff Report, page 2
Statement of Operations and Net Position for March 2016
April 29, 2016

Sewer Fund:

Finance Activity: YTD this fund has recognized 106% of the budgeted Change in Net Position for 2016, after removing the \$145,168 of grant funds received in February for the compost screener. Revenues are otherwise slightly higher with expenses below budgeted levels.

S-1: Volumes are consistent year to year, with the 12-month rolling average costs remaining less than \$1.00 per 1,000 gal of input. Cash and investment balances increased \$106,000 in March.

Gas Fund:

Finance Activity: YTD this fund has recognized 204% of the budgeted Change in Net Position for 2016. As we've discussed in Board meetings previously, this fund's bottom line bounces throughout the year. By way of reference, at this point in 2015, the Gas Fund had recognized 154% of the budgeted Change in Net Position. All expense categories are below 50% spent for the year as well. For the current month, residential consumption is down 30% and commercial consumption is down 17%, accounting for most of the \$650,000 decrease in revenue from year to year. As noted on G-1, the price of gas has continued to decrease as well.

G-1: Nearly all gas inventory has been exhausted and prices continue to decrease. Cash balances continue to increase as collections on billings that lag one month from gas purchases while not adding to inventory created an increase of cash and investments of \$482,568.

FREMONT DEPARTMENT OF UTILITIES
ELECTRIC SYSTEM
FINANCE ACTIVITY
FOR MONTH ENDED 03/31/16

4/28/16
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	CURRENT YEAR ACTUAL Current Month	CURRENT YEAR ACTUAL Year-To-Date	PRIOR YEAR ACTUAL Current Month	PRIOR YEAR ACTUAL Year-To-Date	CURRENT YEAR BUDGET Year-To-Date	ANNUAL BUDGET	% BUDGET
REVENUE IN DOLLARS							
Operating Revenue	2,595,893	16,065,883	2,797,569	16,377,533	18,819,738	37,639,500	42.68
Less Operating Expense	2,094,922	13,240,486	1,944,508	12,845,311	16,102,404	32,205,495	41.11
Net Operating Revenue	500,971	2,825,397	853,061	3,532,222	2,717,334	5,434,005	51.99
Nonoperating Revenue	33,832	118,922	31,193	199,419	117,492	235,000	50.61
Less Nonoperating Expense	-	1,097,749	-	1,081,098	1,095,444	2,190,900	50.10
Net Nonoperating Revenue	33,832	(978,827)	31,193	(881,679)	(977,952)	(1,955,900)	50.04
Net Operating Revenue	500,971	2,825,397	853,061	3,532,222	2,717,334	5,434,005	51.99
Net Nonoperating Revenue	33,832	(978,827)	31,193	(881,679)	(977,952)	(1,955,900)	50.04
Net Revenue	534,803	1,846,570	884,254	2,650,543	1,739,382	3,478,105	53.09
Interfund Transfer In	5,435	14,440	727	64,666	57,594	115,190	12.54
Interfund Transfer Out	(192,164)	(1,076,694)	(198,034)	(1,188,206)	(1,086,426)	(2,172,865)	49.55
Net Interfund Transfer	(186,729)	(1,062,254)	(197,307)	(1,123,540)	(1,028,832)	(2,057,675)	51.62
Change in Net Position	348,074	784,316	686,947	1,527,003	710,550	1,420,430	55.22
EXPENSE IN DOLLARS							
Production	1,238,544	8,166,691	1,264,330	8,609,225	10,332,768	20,665,693	39.52
Distribution	223,946	1,279,478	212,293	1,241,272	1,514,310	3,028,797	42.24
Administrative & General	135,986	1,927,136	99,368	1,847,733	1,955,982	3,912,305	49.26
Depreciation	376,586	2,045,025	257,740	1,536,064	2,322,090	4,644,200	44.03
Subtotal	1,975,062	13,418,330	1,833,731	13,234,294	16,125,150	32,250,995	41.61
Purchased Power	119,860	919,905	110,777	692,115	1,072,500	2,145,000	42.89
Cost of Inventory Sold	-	-	-	-	198	400	-
Total Expenses	2,094,922	14,338,235	1,944,508	13,926,409	17,197,848	34,396,395	41.69
INFORMATIONAL ONLY, all amounts included above:							
PAYROLL IN DOLLARS							
Regular	468,806	2,836,717	442,904	2,741,170	3,319,932	6,639,916	42.72
Overtime	31,183	255,340	27,468	243,857	286,746	573,500	44.52
Total Payroll	499,989	3,092,057	470,372	2,985,027	3,606,678	7,213,416	42.87
Off System Sales	6,560	362,919	51,275	703,565	900,000	1,800,000	20.16
Late Payment Revenue	13,784	91,366	16,587	97,343	-	-	-
Fixed Asset/Capital WIP	(32,527)	19,077	(4,766)	87,251	-	-	-

ELECTRIC SYSTEM

**Statement of Operations
For the Month Ended 03/31/2016**

Production Data:	CURRENT YEAR		PRIOR YEAR	
	Current Month	Y-T-D	Current Month	Y-T-D
GENERATION:				
Gross Generation in M's	31,180	234,193	36,750	248,867
Less Plant Use	3,178	22,684	4,318	27,264
Net Generation	28,003	211,510	32,431	221,603
Purchased from other Utilities	5,741	24,099	3,616	19,601
Less sales to other Utilities	755	23,454	2,025	24,062
<i>System Net Output</i>	<i>32,989</i>	<i>212,155</i>	<i>34,023</i>	<i>217,142</i>

LOCAL LOAD PEAKS:

Gross System Output, KW	67,680	72,660
Gross System Output, Date	1-Mar-16	5-Mar-15
Gross System Output, Time	11:00 AM	9:00 AM
System Net Output, KW	62,450	65,150
System Net Output, Date	1-Mar-16	5-Mar-15
System Net Output, Time	11:00 AM	9:00 AM

MISCELLANEOUS

BTU Per KWH, Gross Generation	11,100	11,210
BTU Per KWH, Net Generation	12,360	12,700
Load Factor, Gross Generation	0.718	0.709
Load Factor, Net Generation	0.710	0.702

FUEL USE:

Coal, Tons	19,188	144,619	22,947	153,999
Natural gas, Mcf	8,980	84,071	8,232	56,524
Propane, Gallons				

FUEL EXPENSE IN DOLLARS:

Coal	\$ 551,618	\$ 4,162,648	\$ 709,231	\$ 4,765,272
Natural gas	\$ 25,952	\$ 310,478	\$ 37,949	\$ 301,331
Propane	\$ -	\$ -	\$ -	\$ -
Total	\$ 577,570	\$ 4,473,126	\$ 747,180	\$ 5,066,603

AVERAGE EXPENSE Per KWH

Fuel, Gross Generation	\$0.01852		\$0.02033	
Fuel, Net Generation	\$0.02063		\$0.02304	
Production, Net Generation	\$0.04423	\$0.0386	\$0.03898	\$0.0388

INVENTORIES IN DOLLARS:

Propane	\$ 12,400	\$ 21,360
Fuel Oil	\$ 30,228	\$ 30,228
Coal	\$ 586,672	\$ 963,705
Production supplies	\$ 2,863,792	\$ 2,805,711
Distribution supplies	\$ 1,527,095	\$ 1,506,245
Gasboy	\$ 14,829	\$ 28,198
Total	\$ 5,035,016	\$ 5,355,448

COAL INVENTORY **20,407**

31,769

4/29/2016

**City of Fremont Department of Utilities
Electric Fund Cash Transactions
For the Month Ended 03/31/2016**

	Beginning balance	Receipts	Disburse- ments	Ending balance	
Cash	\$ 3,480,840	\$ 4,164,821	\$ (4,375,365)	\$ 3,270,295	A.
Offset cash	\$ 999,073	690,599	(561,290)	\$ 1,128,383	A.
Petty Cash/drawers	\$ 2,300			\$ 2,300	A.
Money Market Accounts	\$ 3,768,067	569	(500,000)	\$ 3,268,637	A.
Bond proceeds	\$ 1,507,381	319	-	\$ 1,507,700	B.
Unrestricted CD Investments	\$ 10,500,000	3,250,000	(1,250,000)	\$ 12,500,000	C.
Insurance Reserve CD	\$ 250,000			\$ 250,000	D.
Monofill Closure CD	\$ 500,000			\$ 500,000	D.
Debt Service CDs	\$ 7,698,800			\$ 7,698,800	D.
Total	\$ 28,706,462	\$ 8,106,308	\$ (6,686,655)	\$ 30,126,114	
		net change	1,419,653		

Totals		Per Stmt of Net Position	
Unrestricted cash	A. \$ 7,669,615	\$ 7,669,615	\$ -
Restricted cash	B. \$ 1,507,700	\$ 1,507,700	\$ -
Unrestricted investments	C. \$ 12,500,000	\$ 13,518,320	\$ (1,018,320)
Restricted investments	D. \$ 8,448,800	\$ 7,430,480	\$ 1,018,320
Ending balance	\$ 30,126,114	\$ 30,126,114	\$ -

FREMONT DEPARTMENT OF UTILITIES
WATER SYSTEM
FINANCE ACTIVITY
FOR MONTH ENDED 03/31/16

4/28/16
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	CURRENT YEAR ACTUAL Current Month	CURRENT YEAR ACTUAL Year-To-Date	PRIOR YEAR ACTUAL Current Month	PRIOR YEAR ACTUAL Year-To-Date	CURRENT YEAR BUDGET Year-To-Date	ANNUAL BUDGET	% BUDGET
REVENUE IN DOLLARS							
Water Sales	224,384	1,483,547	216,894	1,332,185	1,655,496	3,311,000	44.81
Tap Fees	-	-	-	5,870	3,000	6,000	-
Total Operating Revenue	224,384	1,483,547	216,894	1,338,055	1,658,496	3,317,000	44.73
Less Operating Expense	197,816	1,168,648	203,236	1,189,402	1,330,968	2,662,395	43.89
Net Operating Revenue	26,568	314,899	13,658	148,653	327,528	654,605	48.11
Nonoperating Revenue	21,877	28,195	3,536	47,715	7,092	14,200	198.56
Less Nonoperating Expense	-	81,666	-	106,380	81,024	162,058	50.39
Net Nonoperating Revenue	21,877	(53,471)	3,536	(58,665)	(73,932)	(147,858)	36.16
Net Operating Revenue	26,568	314,899	13,658	148,653	327,528	654,605	48.11
Net Nonoperating Revenue	21,877	(53,471)	3,536	(58,665)	(73,932)	(147,858)	36.16
Net Revenue	48,445	261,428	17,194	89,988	253,596	506,747	51.59
Interfund Transfer In	-	4,068	-	12,199	53,064	106,134	3.83
Interfund Transfer Out	(17,195)	(94,665)	(12,500)	(75,000)	(92,952)	(185,914)	50.92
Net Interfund Transfer	(17,195)	(90,597)	(12,500)	(62,801)	(39,888)	(79,780)	113.56
Change in Net Position	31,250	170,831	4,694	27,187	213,708	426,967	40.01
EXPENSE IN DOLLARS							
Production	22,687	147,864	34,286	172,453	233,754	467,650	31.62
Distribution	51,657	271,377	53,988	316,058	310,638	621,420	43.67
Administrative & General	44,556	358,604	38,006	350,779	373,854	747,883	47.95
Depreciation	78,916	472,469	76,956	456,492	493,746	987,500	47.84
Total Expense	197,816	1,250,314	203,236	1,295,782	1,411,992	2,824,453	44.27
INFORMATIONAL ONLY, all amounts included above:							
PAYROLL IN DOLLARS							
Regular	50,621	300,423	47,754	287,661	333,900	667,845	44.98
Overtime	1,029	16,187	2,377	14,639	15,846	31,700	51.06
Total Payroll	51,650	316,610	50,131	302,300	349,746	699,545	45.26

Fixed Asset/Capital WIP

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WATER SYSTEM

**Statement of Operations
For the Month Ended 03/31/2016**

PRODUCTION DATA:	Current Year Current Month	Prior Year Current Month
TOTAL WATER PUMPED		
In 1,000 Gallons:	93,318	100,054
Plant II Bypass:	4,834	9,654
PEAKS:		
Peak Flow - Gallons/Minutes	6,985	7,490
- Date	28-Mar-16	27-Mar-15
- Time	1:00 PM	10:50 AM
Peak Day - 1,000 Gallons	4,922	5,218
- Date	29-Mar-16	27-Mar-15
Avg. Day - 1,000 Gallons	3,010	3,228
COST PER 1,000 GALLONS PUMPED:	YTD	YTD
Average Electric Cost	\$0.0830	\$0.0830
Average Production Cost	\$0.2431	\$0.3427
Average Kilowatts Used	0.925	0.839

February Production Data/March Sales Data				
% OF TOTAL GALLONS PUMPED:	Previous month		Previous Month Y-T-D	
CURRENT YEAR -	M-GALLONS	%	M-GALLONS	%
Total Sales	83,569	103%	598,522	85%
Bulk Water Sales	9	0%	111	0%
Systems Use	1,207	1%	8,394	1%
Plant II Bypass	-		92,311	13%
Unmetered	123	0%	5,137	1%
Difference	(3,958)	-5%	256	0%
Total Water Pumped	80,950	100%	704,730	100%
PRIOR YEAR				
Total Sales	83,050	96%	533,956	89%
Bulk Water Sales	-		230	0%
Systems Use	1,053	1%	7,521	1%
Plant II Bypass	3	0%	37,167	6%
Unmetered	816	1%	2,967	0%
Difference	2,007	2%	20,699	3%
Total Water Pumped	86,929	100%	602,540	100%

12-month rolling average production cost per 1,000 gallons pumped:

\$0.2025	\$0.2151
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**City of Fremont Department of Utilities
Water Fund Cash Transactions
For the Month Ended 03/31/2016**

	Beginning balance	Receipts	Disburse- ments	Ending balance	
Cash	\$ 758,410	\$ 269,036	\$ (141,524)	\$ 885,922	A.
Money Market Accounts	\$ 745,837	35		\$ 745,872	A.
Unrestricted CD Investments	\$ -			\$ -	B.
Debt Service CDs	\$ 875,000			\$ 875,000	C.
Total	\$ 2,379,247	\$ 269,071	\$ (141,524)	\$ 2,506,795	
		net change	127,547		

Totals				Per Stmt of Net Position			
Unrestricted cash	A.	\$	1,631,795	\$	1,598,115	\$	(33,680)
Restricted cash	A.	\$	-	\$	33,680	\$	33,680
Restricted investments	B.C.	\$	875,000	\$	875,000	\$	-
Ending balance		\$	2,506,795	\$	2,506,795	\$	-

FREMONT DEPARTMENT OF UTILITIES
SEWER SYSTEM
FINANCE ACTIVITY
FOR MONTH ENDED 03/31/16

4/28/16
3:25 PM
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	CURRENT YEAR ACTUAL Current Month	CURRENT YEAR ACTUAL Year-To-Date	PRIOR YEAR ACTUAL Current Month	PRIOR YEAR ACTUAL Year-To-Date	CURRENT YEAR BUDGET Year-To-Date	ANNUAL BUDGET	% BUDGET
REVENUE IN DOLLARS							
Sewer Rentals	383,424	2,520,176	431,375	2,473,957	2,400,492	4,801,000	52.49
Tap Fees	-	-	-	9,740	-	-	-
Total Operating Revenue	383,424	2,520,176	431,375	2,483,697	2,400,492	4,801,000	52.49
Less Operating Expense	383,219	2,058,537	330,584	1,837,862	2,132,970	4,266,410	48.25
Net Operating Revenue	205	461,639	100,791	645,835	267,522	534,590	86.35
Nonoperating Revenue	7,019	203,692	8,662	43,292	33,096	66,200	307.69
Less Nonoperating Expense	-	27,142	-	40,966	26,922	53,856	50.40
Net Nonoperating Revenue	7,019	176,550	8,662	2,326	6,174	12,344	1,430.25
Net Operating Revenue	205	461,639	100,791	645,835	267,522	534,590	86.35
Net Nonoperating Revenue	7,019	176,550	8,662	2,326	6,174	12,344	1,430.25
Net Revenue	7,224	638,189	109,453	648,161	273,696	546,934	116.68
Interfund Transfer In	-	3,260	-	9,777	42,528	85,063	3.83
Interfund Transfer Out	(29,155)	(160,499)	(12,500)	(75,000)	(157,608)	(315,220)	50.92
Net Interfund Transfer	(29,155)	(157,239)	(12,500)	(65,223)	(115,080)	(230,157)	68.32
Change in Net Position	(21,931)	480,950	96,953	582,938	158,616	316,777	151.83
EXPENSE IN DOLLARS							
Production	183,086	869,586	154,993	786,241	870,648	1,741,500	49.93
Collection	43,497	243,356	30,135	159,952	273,096	546,265	44.55
Administrative & General	46,261	311,497	38,982	294,727	336,504	673,201	46.27
Depreciation	110,375	661,240	106,474	637,908	679,644	1,359,300	48.65
Total Expense	383,219	2,085,679	330,584	1,878,828	2,159,892	4,320,266	48.28
INFORMATIONAL ONLY, all amounts included above:							
PAYROLL IN DOLLARS							
Regular	99,247	487,861	71,443	438,578	545,784	1,091,600	44.69
Overtime	1,172	15,208	2,967	18,004	19,494	39,000	38.99
Total Payroll	100,419	503,069	74,410	456,582	565,278	1,130,600	44.50

Fixed Asset/Capital WIP

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SEWAGE SYSTEM

**Statement of Operations/Finance Activity
For the Month Ended 03/31/2016**

TREATMENT PLANT:	CURRENT YEAR		PRIOR YEAR	
	Current Month	Y T D	Current Month	Y T D
Input in 1,000 Gallons	126,860	779,037	133,670	770,168
Minimum Flow	3,070	19,547	2,100	10,520
Minimum Day	-	-	-	-
Maximum Flow	4,600	32,085	7,300	37,060
Maximum Day	-	-	-	-
Peak Hour Flow	6,500	9,600	7,300	7,900
Average Day	4,090	25,540	4,310	25,380
Gas Produced - 1,000 Cubic Feet	5,032	21,845	5,032	21,845
Propane Used - Gallons	-	-	-	-
12-month rolling avg production cost/1,000 gal. input:	0.9497		1.0400	
Treatment Cost/ 1,000 Gallons	1.4432	1.1162	1.1595	1.0209
Inventory in Dollars	\$ 142,837		\$ 131,500	

**City of Fremont Department of Utilities
Sewer Fund Cash Transactions
For the Month Ended 03/31/2016**

	Beginning balance	Receipts	Disbursements	Ending balance
Cash	\$ 1,303,860	\$ 413,248	\$ (307,276)	\$ 1,409,832
Money Market Accounts	\$ 304,227	21		\$ 304,248
Unrestricted CD Investments	\$ 5,200,000	1,000,000	(1,000,000)	\$ 5,200,000
Debt Service CDs	\$ 175,000	-		\$ 175,000
Total	\$ 6,983,087	\$ 1,413,269	\$ (1,307,276)	\$ 7,089,080
		net change	105,993	

Totals

			Per Stmt of Net Position	
Unrestricted cash	\$ 1,714,080	A.	\$ 1,714,080	\$ -
Unrestricted investments	\$ 5,200,000	B.	\$ 5,057,870	\$ 142,130
Restricted investments	\$ 175,000	C.	\$ 317,130	\$ (142,130)
Ending balance	\$ 7,089,080		\$ 7,089,080	\$ -

FREMONT DEPARTMENT OF UTILITIES
GAS SYSTEM
FINANCE ACTIVITY
FOR MONTH ENDED 03/31/16

4/28/16
3:25 PM
1. 1

	CURRENT YEAR ACTUAL Current Month	CURRENT YEAR ACTUAL Year-To-Date	PRIOR YEAR ACTUAL Current Month	PRIOR YEAR ACTUAL Year-To-Date	CURRENT YEAR BUDGET Year-To-Date	ANNUAL BUDGET	% BUDGET
REVENUE IN DOLLARS							
Operating Revenue	1,285,508	7,023,237	1,933,609	9,358,098	7,467,486	14,935,000	47.03
Less Operating Expense	821,532	6,341,176	1,250,603	8,660,412	7,036,068	14,072,475	45.06
Net Operating Revenue	463,976	682,061	683,006	697,686	431,418	862,525	79.08
Nonoperating Revenue	644	2,684	4,144	20,942	17,496	35,000	7.67
Less Nonoperating Expense	-	5,890	-	6,141	5,886	11,780	50.00
Net Nonoperating Revenue	644	(3,206)	4,144	14,801	11,610	23,220	(13.81)
Net Operating Revenue	463,976	682,061	683,006	697,686	431,418	862,525	79.08
Net Nonoperating Revenue	644	(3,206)	4,144	14,801	11,610	23,220	(13.81)
Net Revenue	464,620	678,855	687,150	712,487	443,028	885,745	76.64
Interfund Transfer In	-	-	-	-	-	-	-
Interfund Transfer Out	(62,023)	(341,438)	(57,989)	(347,936)	(360,282)	(720,582)	47.38
Net Interfund Transfer	(62,023)	(341,438)	(57,989)	(347,936)	(360,282)	(720,582)	47.38
Change in Net Position	402,597	337,417	629,161	364,551	82,746	165,163	204.29
EXPENSE IN DOLLARS							
Gas Purchase Expense	584,240	4,888,458	1,037,265	7,299,476	5,499,996	11,000,000	44.44
Distribution	109,592	675,708	106,421	649,510	702,408	1,404,960	48.09
Administrative & General	89,694	556,145	68,400	478,523	599,796	1,199,785	46.35
Depreciation	38,006	226,755	38,517	239,044	239,754	479,510	47.29
Total Expense	821,532	6,347,066	1,250,603	8,666,553	7,041,954	14,084,255	45.06
INFORMATIONAL ONLY, all amounts included above:							
PAYROLL IN DOLLARS							
Regular	94,005	596,296	93,413	600,850	619,482	1,239,000	48.13
Overtime	1,370	10,961	2,669	12,071	13,896	27,800	-
Total Payroll	95,375	607,257	96,082	612,921	633,378	1,266,800	47.94
Late Payment Revenue	10,840	40,537	6,879	30,867	32,496	65,000	62.36
Fixed Asset/Capital WIP	(12,129)	-	-	-	-	-	-

GAS SYSTEM

**Statement of Operations/Finance Activity
For the Month Ended 03/31/2016**

GAS SYSTEM:	CURRENT YEAR		PRIOR YEAR	
	Current Month	Y T D	Current Month	Y T D
Gas volume delivered (Mmbtu)	223,185	2,012,797	226,501	1,619,789
Gas Available for Sale	<u>223,185</u>	<u>2,012,797</u>	<u>226,501</u>	<u>1,619,789</u>
Cost of Gas / Mmbtu	1.78551	2.42869 A	3.45221	4.50644
Gas Use / Day / Mmbtu	7,200		7,306	
Gas Cost / Day	12,854.806		25,223.484	
Gas Storage in Mcf	<u>14,864</u>		<u>31,013</u>	

**City of Fremont Department of Utilities
Gas Fund Cash Transactions
For the Month Ended 03/31/2016**

	Beginning balance	Receipts	Disburse- ments	Ending balance
Cash	\$ 2,103,553	\$ 1,604,288	\$ (1,121,840)	\$ 2,586,001
Money Market Accounts	\$ 1,725,246	121		\$ 1,725,367
Unrestricted CD Investments	\$ 2,750,000		-	\$ 2,750,000
Debt Service CDs	\$ 250,000	-		\$ 250,000
Total	<u>\$ 6,828,799</u>	<u>\$ 1,604,408</u>	<u>\$ (1,121,840)</u>	<u>\$ 7,311,368</u>
		net change	482,568	

Totals

Unrestricted cash	\$ 4,311,368 A.
Unrestricted investments	\$ 2,750,000 B.
Restricted investments	\$ 250,000 C.
Ending balance	<u>\$ 7,311,368</u>

Per Stmt of Net Position

	\$ 4,311,368	\$ -
	\$ 2,948,815	\$ (198,815)
	\$ 51,185	\$ 198,815
Ending balance	<u>\$ 7,311,368</u>	<u>\$ -</u>

CITY OF FREMONT, NEBRASKA
STATEMENT OF NET POSITION - PROPRIETARY FUNDS
March 31, 2016

	Enterprise Funds				
	Electric Fund	Water Fund	Sewer Fund	Gas Fund	Total
ASSETS					
Current assets:					
Cash and cash equivalents	\$ 7,669,615	\$ 1,598,115	\$ 1,714,080	\$ 4,311,368	\$ 15,293,177
Investments	13,518,320	-	5,057,870	2,948,815	21,525,005
Receivables					
Accounts, net of allowance for doubtful accounts	827,093	173,619	114,046	480,759	1,595,517
Budget billing balance	(1,128,383)				(1,128,383)
Unbilled revenue	2,239,876	240,680	426,810	538,968	3,446,335
Due from other funds	57,356	2,042	367	6,107	65,872
Due from other governments	-	-	-	-	-
Interest	125,828	4,795	21,219	19,842	171,683
Inventory	5,035,016	329,543	142,837	534,290	6,041,686
Prepaid expenses	229,290	74,731	78,598	152,753	535,372
Total current assets	<u>28,574,011</u>	<u>2,423,526</u>	<u>7,555,827</u>	<u>8,992,901</u>	<u>47,546,265</u>
Noncurrent assets:					
Restricted cash and cash equivalents	1,507,700	33,680	-	-	1,541,380
Restricted investments	7,430,480	875,000	317,130	51,185	8,673,795
Unamortized bond discount	129,762	12,522	9,190	1,940	153,413
Unamortized bond insurance	66,576	17,632	12,335	2,379	98,922
Capital assets					
Land	2,086,695	1,890,618	143,803	116,340	4,237,456
Construction in progress	57,180,378	380,357	97,555	49,394	57,707,684
Depreciable capital assets	140,646,669	39,544,753	50,437,261	15,802,357	246,431,041
Less Accumulated depreciation	<u>(92,225,862)</u>	<u>(15,876,296)</u>	<u>(24,021,698)</u>	<u>(10,529,458)</u>	<u>(142,653,313)</u>
Net capital assets	<u>107,687,880</u>	<u>25,939,433</u>	<u>26,656,921</u>	<u>5,438,633</u>	<u>165,722,867</u>
Total noncurrent assets	<u>116,822,398</u>	<u>26,878,267</u>	<u>26,995,576</u>	<u>5,494,137</u>	<u>176,190,377</u>
Total assets	<u>145,396,409</u>	<u>29,301,792</u>	<u>34,551,403</u>	<u>14,487,038</u>	<u>223,736,642</u>
LIABILITIES					
Current liabilities:					
Accounts payable	282,031	7,844	56,356	468,055	814,286
Due to other funds	15,259	1,703	3,164	6,247	26,373
Accrued payroll and vacation	422,585	22,276	56,029	80,955	581,846
Sales tax payable	199,538	534	-	30	200,102
Accrued interest payable	626,339	33,268	4,819	919	665,345
Customer deposits	495,040	825	366	-	496,231
Warranty reserve surge protection	5,218	-	-	-	5,218
Current portion of					
long-term obligations	<u>2,462,921</u>	<u>282,054</u>	<u>279,696</u>	<u>35,330</u>	<u>3,060,001</u>
Total current liabilities	<u>4,508,931</u>	<u>348,504</u>	<u>400,431</u>	<u>591,536</u>	<u>5,849,401</u>
Noncurrent liabilities:					
Fly Ash liability	249,428	-	-	-	249,428
Compensated absences	502,279	42,939	44,749	154,348	744,315
Unamortized bond premium	2,044,035	50,713	275	-	2,095,023
Noncurrent portion of					
long-term obligations	<u>58,652,026</u>	<u>6,590,228</u>	<u>2,107,448</u>	<u>355,298</u>	<u>67,704,999</u>
Total noncurrent liabilities	<u>61,447,769</u>	<u>6,683,880</u>	<u>2,152,472</u>	<u>509,646</u>	<u>70,793,766</u>
Total liabilities	<u>65,956,699</u>	<u>7,032,384</u>	<u>2,552,902</u>	<u>1,101,182</u>	<u>76,643,167</u>
NET POSITION					
Invested in capital assets, net	46,639,510	19,084,783	24,282,112	5,050,384	95,056,789
Restricted for:					
Debt service	7,179,908	908,680	317,130	51,185	8,456,903
Fly Ash disposal	250,572	-	-	-	250,572
Unrestricted	<u>25,369,720</u>	<u>2,275,946</u>	<u>7,399,259</u>	<u>8,284,287</u>	<u>43,329,212</u>
Total net position	<u>\$ 79,439,709</u>	<u>\$ 22,269,409</u>	<u>\$ 31,998,501</u>	<u>\$ 13,385,856</u>	<u>\$ 147,093,475</u>

STAFF REPORT

TO: BOARD OF PUBLIC WORKS

FROM: Mike Royuk, Distribution Superintendent
Alan Kaspar, Director of Electrical Engineering
Brian Newton, Utilities General Manager

DATE: May 4th, 2016

SUBJECT: Recommendation of Award – Compact Crawler Boom Lift (Backyard Machine)

Recommendation: Award Contract for Purchase of Backyard Machine to Altec Industries, Inc. in the amount of \$187,329.00

Background: A Request for Proposal (RFP) for Purchase of Backyard Machine was published in the Fremont Tribune March 29th, April 5th and April 12th and placed on the City of Fremont's website. Sealed bids were received until 2:00 p.m. April 19th, 2016. The following proposals were received:

<u>Bidder</u>	<u>Bid Bond</u>	<u>Lump Sum Bid</u>	<u>Delivery Date</u>
Altec Industries, Inc.	Yes	\$187,329.00	7/31/2016
Titan Machinery	N/A	No Bid	N/A
Terex (Bid #1)	No	\$170,766.00	150-180 days
Terex (Bid #2)	No	\$180,237.00	150-180 days

There are multiple factors that contribute to this recommendation of award to Altec, they are as follows:

1. The Altec unit meets all specifications.
2. The Terex units quoted cannot achieve the working height that will be required of this machine.
3. Terex did not provide a bid bond as required by the bidding documents.
4. Altec has a mobile service man in Lincoln, NE.
5. We have many older 70' poles in backyards that we could access without the use of a bucket truck, the unit will pass through a 36" gate.
6. The backyard machine we currently have has a working height of only 45' and has 2069 hours of use.
7. The tree crew would have the ability to reach higher overhanging limbs, therefore increasing our reliability.

8. We would have the ability to trim trees on both sides of pole lines while only accessing one yard on one side of the line. The unit has a 36' reach.

Fiscal Impact: Unit cost is \$187,329.00. The budgeted cost is \$165,000.00. \$29,190.00 remains in the budget from the recent purchase of an 82' bucket truck. Taking this into consideration, there would still be \$6,861.00 remaining in the budget between these two pieces of equipment. The reason the actual cost exceeded forecasted budget is due to the fact that the Altec unit was not in production at the time the budget was created. Also, the Altec unit includes remote control capability, which accounts for approximately \$5,300.00 of the overall cost.

Attachment: Bid Tabulation – Purchase Backyard Machine – April 19th, 2016 at 2:00p.m.



TDA58

FOR NEW EQUIPMENT SALES, CALL
800.958.2555
TO SPEAK WITH AN ALTEC REPRESENTATIVE
or visit us online at altec.com

 **Altec.**
BACKYARD
AERIAL DEVICE

STAFF REPORT

TO: BOARD OF PUBLIC WORKS

FROM: Alan Kaspar, Director of Electrical Engineering
Mike Royuk, Distribution Superintendent
Brian Newton, Utilities General Manager

DATE: May 4, 2016

SUBJECT: Out of State travel for employee training

Recommendation: Approve out of State travel for two employees in October 2016 to attend substation training in Madison, Wisconsin.

Background: The University of Wisconsin-Madison is offering a Fundamentals of Substation Equipment and Control Systems course in Madison, Wisconsin on October 24-26, 2016. The course covers equipment operation, control and wiring diagrams, protective relaying, and start-up & troubleshooting. This course will provide a more thorough understanding of substation design and operation for the DU Engineering and Distribution Departments. In addition, this training supports the DU succession planning process as identified in the DU Strategic Plan. Early approval to attend this course is being requested, as past experience with University of Wisconsin training programs has shown that these limited-attendance courses fill up quickly. The course brochure, training/travel cost estimate, and additional background information is attached.

Fiscal Impact: Estimated cost is \$5,080 and is budgeted.

<i>Training Expense Cost Estimate</i>			
<i>Description</i>	<i>Cost</i>	<i>Quantity</i>	<i>Total</i>
Course Registration (w. Tax)	\$1,600.00	2	\$3,200.00
Lodging Fees (per night)	\$155.00	8	\$1,240.00
Employee Reimbursement	\$320.00	2	\$640.00
Total Estimate:			\$5,080.00

Notes:

1. Employees will use FDU Vehicle, fuel up prior to departure.
2. Employee Reimbursement includes fuel, parking/taxi and Per Diem.

**FREMONT DEPARTMENT OF UTILITIES
SEMINAR/SCHOOL ATTENDANCE REQUEST**

Date request submitted to the Board of Public Works: May 4, 2016

Date of seminar/school: October 24th through 26th, 2016

Location of seminar/school: University of Wisconsin – Madison, Wisconsin

Name(s), title(s), and years of DU service of employee(s) proposed to attend:

Nate Royuk – Senior Engineering Associate – 2.5 years Service

Dion Menking – Electric Metering and Service Supervisor – 2 years Service

Benefits to the Utility: See Course Overview (attached)

Estimated cost (which includes lodging, meals, and transportation): \$5,080.00 (See attached estimated cost breakdown)

Brochure attached

Additional comments:

Nate has attended an Overhead Distribution Line Design class through this same institution and it has been extremely beneficial. Many of the concepts and philosophies taught in these classes have become standards for our engineering design and prove to be very valuable.

**Requested by: Alan J. Kaspar, P.E. – Director of Electrical Engineering
Mike Royuk – Distribution Superintendent**

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A straightforward, practical treatment of how equipment operates and how it is controlled.

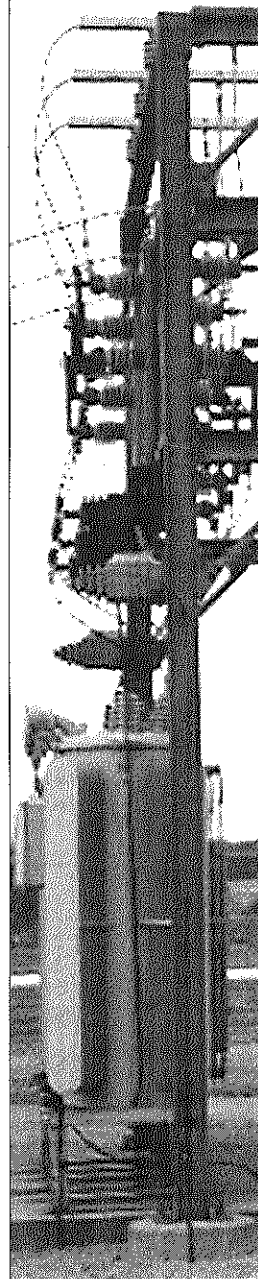
Fundamentals of Substation Equipment and Control Systems

January 18-20, 2016
Lake Buena Vista, Florida

October 24-26, 2016
Madison, Wisconsin



WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON



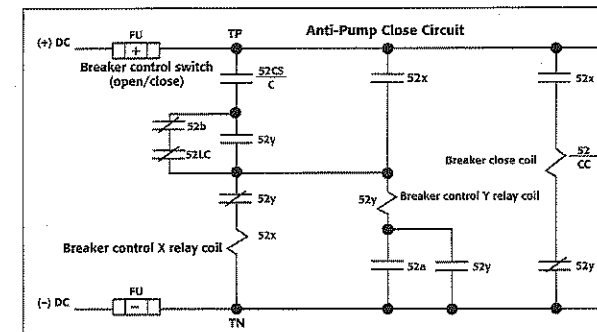
A practical course covering medium- and high-voltage industrial and utility substations.

Fundamentals of Substation Equipment and Control Systems

January 18-20, 2016
Lake Buena Vista, Florida

October 24-26, 2016
Madison, Wisconsin

- How equipment operates
- Control and wiring diagrams
- Protective relay trip schematics
- Start-up and troubleshooting



Fundamentals of Substation Equipment and Control Systems

January 18–20, 2016 in Lake Buena Vista, Florida ■ October 24–26, 2016 in Madison, Wisconsin

Course Outline

Day 1

7:15 Registration

7:45 Welcome and Introductions

John A. Raksany, PE

Program Director

Department of Engineering Professional Development

University of Wisconsin–Madison

John Appleyard, PE

System Protection Engineer

American Transmission Company

Madison, Wisconsin

8:00 Instruction Begins

1 Substation Types and Purposes

- Fundamentals of power system operation
- Primary substation equipment

2 Power Transformers and Controls

- Major components
- Construction and operation
- Connections and ratings
- Fixed taps and LTCs

3 Introduction to Schematics and Wiring Diagrams

- Control logic
- Converting control schematics to wiring diagrams
- Example transformer control and wiring diagrams

4 Voltage Regulators

- Construction and operation
- Ratings

5 Disconnect Switches

- Types and applications
- Manual and motor-operated switches; control schematics

6 Power Circuit Breakers

- Purpose and types
- Construction and operation
- Schematics and wiring diagram examples

5:15 Adjournment

Day 2

7:45 Instruction Continues

7 Circuit Switchers and Other Special Application Switches

- Purpose and major components
- Construction and operation
- Schematics and wiring

8 Reclosers

- Purpose and applications
- Major components
- Types and ratings
- Construction and operation

9 Power Fuses

- Types and applications
- Operation

10 Instrument Transformers

- Voltage and current transformers
- Principles of operation
- Burden, saturation, and accuracy
- Ratings and connections

11 Protective Relay Systems

- Purpose and types
- DC trip and close schematics
- AC voltage and current schematics
- Wiring diagrams

5:15 Adjournment

Day 3

7:45 Instruction Continues

12 Battery Systems

- Purpose and ratings
- Chargers and charging control systems

13 AC Station Power Systems

- Station power requirements
- Back-up supplies/sources

14 SCADA

- Purpose and functions
- SCADA overview
- RTUs and IEDs

15 Integrated/Automated Substation Control Reference Material

- Integration/automation defined
- Communication systems and interfaces

16 Capacitor Banks

- Purpose
- Construction and operation
- Switching and protection control schemes

17 Metalclad Switchgear

- Advantages and applications
- Construction and operation
- Protection and control

18 Wave Traps

- Purpose and applications
- Major components
- Tuning and operation

19 Substation Commissioning

- Acceptance testing equipment
- Start up procedures
- Energizing equipment
- Substation and transmission line examples

4:00 Final Adjournment

Past Participants Say...

"I've done electrical design in protection and control for three years. This course just accelerated my working knowledge by at least three years. I can't wait to apply what I've learned at work."

Douglas Morris, Electrical Designer
MESA Associates, Clinton, Tennessee

"The schematic and wiring diagram exercises were great. This was a good course that exceeded my expectations."

Jim Williams, Jr., O&M Manager/Generation
North Western Energy, Butte Montana

"This course is a great overview of substation equipment and schematics for anyone new to utility work or new to substation work."

Jennifer Partlan, Substation Construction
Consumers Energy, Dewitt, Michigan

"I knew within the very 1st hour of the course that this was a worthwhile investment."

Theron C. Colbert, CEO
TIRC Energy Engineering, Jacksonville, Florida

"This course is actually company-required for my department."

Daniel Lindsay, Electrical Engineer
Beta Engineering, LLC, Pineville, Louisiana

"I really like the photographs that are taken of real and equipment. I also like the exercises that involve the schematic diagrams and substation commissioning. This course provides a good overall picture of substation equipment and operation."

Thanh-Xuan Nguyen, Power Engineer
Schweitzer Engineering Labs, Pullman, Washington

Four Easy Ways to Enroll



Internet:
http://epd.engr.wisc.edu



Phone:
800-462-0876 or
608-262-1299 (TDD 265-2370)



Mail to:
The Pyle Center
Attn: Engineering Registration
702 Langdon Street
Madison, Wisconsin 53706



Fax:
800-442-4214 or
608-265-3448

Upcoming Related Courses in Madison and Florida

Principles of Substation Design and Construction

February 8–10, 2016
Lake Buena Vista, Florida
Course #R010

October 17–19, 2016
Madison, Wisconsin
Course #R018

Design of Transmission Lines, Structures, and Foundations

February 22–26, 2016
Lake Buena Vista, Florida
Course #R012

November 7–11, 2016
Madison, Wisconsin
Course #R021

Computerized Transmission Line Design: PLS-CADD Hands-On Training

February 15–19, 2016
Lake Buena Vista, Florida
Course #R011

December 5–9, 2016
Lake Buena Vista, Florida
Course #R022

To learn more about these and other courses, please contact us:

Web: epd.engr.wisc.edu
Email: custserv@epd.engr.wisc.edu
Phone: 800-462-0876

Hotel Room Availability in Florida

Please note that hotel rooms may be scarce in Lake Buena Vista during this course period. If you plan, or tentatively plan, to attend this course, please reserve your hotel room early and before the cut-off date listed in the accommodations section.

Need to Know More?

Call toll free 800-462-0876 or 608-262-2061 and ask for
Program Director: John A. Raksany, PE
jaraksany@wisc.edu
Program Associate: Mary Danielson
mary.danielson@wisc.edu
Or email custserv@epd.engr.wisc.edu

General Information

Fee of \$1495 Covers Course materials, break refreshments, lunches, and certificate.

Cancellation If you cannot attend please notify us at least seven days prior to the course start, and we will refund your fee. Cancellations received after that date and no-shows are subject to a \$150 administrative fee per course. You may enroll a substitute at any time before the course starts.

Location and Accommodations

January Location Holiday Inn-In the Walt Disney World Resort, 1805 Hotel Plaza Blvd., Lake Buena Vista, FL. Phone messages: 407-828-8888.

January Accommodations We have reserved a block of guest rooms (rates starting at \$125) at Holiday Inn-In the Walt Disney World Resort, 1805 Hotel Plaza Blvd., Lake Buena Vista, FL. Reserve a room online at epd.engr.wisc.edu/lodgingR009 or call 877-394-5765 and indicate that you will be attending this course under group code FUN. Room requests after December 18 will be subject to availability. Other fees and restrictions may apply.

October Location The Pyle Center, 702 Langdon Street, Madison, WI. Phone messages: 608-262-1122.

October Accommodations We have reserved a block of guest rooms (rates starting at \$130, including shuttle) at Madison Concourse Hotel and Governor's Club, One West Dayton Street, Madison, WI. Reserve a room online at epd.engr.wisc.edu/lodgingBR019 or call 800-356-8293 or 608-257-6000 and indicate that you will be attending this course under group code 470259. Room requests after October 2 will be subject to availability. Other fees and restrictions may apply.

We have reserved a second block of guest rooms (rates starting at \$94, including continental breakfast) at Lowell Center, 610 Langdon Street, Madison, WI. Reserve a room online at epd.engr.wisc.edu/lodgingR019 or call 866-301-1763 or 608-256-2621 and indicate that you will be attending this course under group code R019EPD. Room requests after September 23 will be subject to availability. Other fees and restrictions may apply.

Course Information

Please enroll me in **Fundamentals of Substation Equipment and Control Systems**

- ☐ **Course #R009** January 18–20, 2016 in Lake Buena Vista, Florida Fee: \$1495
☒ **Course #R019** October 24–26, 2016 in Madison, Wisconsin Fee: \$1495
☐ I cannot attend at this time. Please send me brochures on future courses.

Personal Information (Please print clearly.)

Name _____
Title _____
Company _____
Address _____
City/State/Zip _____
Phone (_____) _____ Fax (_____) _____
E-mail _____

Additional Enrollees

Name _____
Title _____
E-mail _____
Name _____
Title _____
E-mail _____

Billing Information

- ☐ Bill my company ☐ P.O. or check enclosed (Payable in U.S. funds to UW—Madison)



Cardholder's Name _____

Card No. _____ Expires _____

UW# From mailer panel.

☐ Please check the box if you are a person with a disability and desire special accommodations. A customer service representative will contact you. Requests will be kept confidential.

Fundamentals of Substation Equipment and Control Systems

January 18–20, 2016 Lake Buena Vista, Florida ■ October 24–26, 2016 Madison, Wisconsin

A Practical Introduction to Equipment and Control Systems

Learn about the equipment that makes up an electric substation in this basic course, along with how each type of equipment operates. You will be guided through the control and wiring diagrams that control equipment operation.

What You Will Learn

You will learn about construction, operation, and control of:

- Power transformers
- Load tap changers
- Voltage regulators
- Power circuit breakers
- Circuit switchers
- Capacitor banks

You will also study:

- Protective relays
- Trip schematics and wiring diagrams
- Auxiliary equipment and systems
- Metalclad switchgear
- Substation automation and integration
- Batteries and battery charges

Who Should Attend

- Substation design engineers
- Industrial, utility, or plant engineers
- Engineering technicians
- Substation operations specialists
- Power system dispatchers
- Consulting engineers
- Transmission and distribution line design engineers and technicians
- Project managers
- Construction supervisors
- Managers of design engineering departments
- Electric utility engineers involved in distribution engineering, operations, or planning

This course will be beneficial if you are involved in the design, construction, operation, or maintenance of medium- or high-voltage substations and distribution facilities.

Why You Should Attend

When you complete this course you will be able to:

- Understand how substation equipment operates
- Read trip and close schematics and control system diagrams
- Relate control schematics to their corresponding wiring diagrams
- Design straightforward control system schematics

Valuable Take-Home References

You will receive extensive course materials that will serve as valuable references in your work.

Earn Continuing Education Credit

By participating in this course, you will earn 20 Professional Development Hours (PDH) or 2.0 Continuing Education Units (CEU).

Benefit from Experienced Instructors

Your instructors, professional engineers with many years of field and design experience, will guide you through typical equipment start-up and troubleshooting procedures to give you a practical understanding of how substation equipment is controlled and operated.

Course Instructors

John Appleyard, PE, is a system protection engineer at American Transmission Company in Madison, Wisconsin. Appleyard has more than 30 years of experience working with utility grade relay protection and control, and systems operations. He is a past chair of the IEEE Power System Relaying Committee. Appleyard spent 25 years working for an investor-owned electric utility, where his responsibilities included the design, installation, and maintenance of relay protection systems. Later activities included supervision of crews responsible for the construction and maintenance of utility substations and transmission lines. Appleyard has also worked for the S&C Electric Company as a relay application engineer and project manager in their Power System Services Division. Appleyard received his BSEE degree from the University of Wisconsin–Madison in 1970.

John A. Raksany, PE, joined the Department of Engineering Professional Development at the University of Wisconsin–Madison as a program director in 1998. Previously a senior maintenance planning engineer for Alliant Utilities, he has 27 years of experience in power delivery system planning, protection and control, maintenance, and substation design.

STAFF REPORT

TO: BOARD OF PUBLIC WORKS

FROM: Alan Kaspar, Director of Electrical Engineering
Brian Newton, Utilities General Manager

DATE: May 4, 2016

SUBJECT: On-Site SCADA Training Course

Recommendation: Approve two-day on-site SCADA training course to be presented by Tonex, Inc.

Background: The current DU Strategic Plan includes an upgrade to existing Supervisory Control and Data Acquisition (SCADA) systems, to be completed and in service by September 2019. Al Kaspar, Director of Electrical Engineering, has been given overall responsibility for managing this project. At the direction of DU General Manager Brian Newton, Al conducted a search of available professional training service companies (independent of SCADA system vendors) which could provide the DU project team and sponsors with initial comprehensive SCADA system training prior to beginning work on the project.

Tonex, Inc., a technology and management training service company, was found to be the vendor of choice. The Tonex training covers basic and intermediate concepts of SCADA, system architecture, implementations, communication protocols, cyber security, and operation and maintenance. This training will provide the DU with the necessary SCADA knowledge required to successfully specify the needed upgrades to our SCADA systems.

A proposal was requested from Tonex for providing their 2-day SCADA Training Course, customized to fit DU needs, on-site at DU facilities. The Tonex training proposal is attached.

Fiscal Impact: Proposal cost is \$14,999 and is budgeted (the 2015-2017 DU Capital Budget includes \$557,000 across all Departments for SCADA system upgrades).



1400 Preston Rd, Suite 400
Plano, TX 75093
Telephone: 972-735-8686
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www.tonex.com

April 14, 2016

SCADA and SCADA Security 2 Days Each

Prepared for:
Alan J. Kaspar, P.E.
Director of Electrical Engineering
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Dear Alan:

Thanks you for your interest in TONEX on-site training. The following is a proposal for a customized SCADA Training you requested. Based on your need, I also am quoting SCADA Security Training

TONEX is uniquely qualified to provide the City of Fremont with high quality training and support, which will most assuredly add value to your company. Our courses include intensive hands-on exercises to maximize learning, professional development and retention.

Our instructors constantly go beyond the curriculum to teach you best practices, tips and tricks. They maintain and expand their expertise by monitoring new events in the industry, consulting with our clients, updating and developing courses and building custom, client focused exercises.

Number of Attendees	Program Title	Location/Duration	On-Site Training Rate
Up to 20 Attendees	Customized SCADA Training Course	Fremont, NE 2 Days	\$14,999.00
Up to 20 Attendees	<u>Optional:</u> Customized SCADA Security Training Course	Fremont, NE 2 Days	\$14,999.00
Up to 20 Attendees	<u>Optional:</u> Customized SCADA and SCADA Security Training Course	Fremont, NE 4 Days	\$24,999.00

Property of and proprietary to TONEX. Documents not to be disclosed in whole or in part without the express written consent of TONEX. It shall not be duplicated or used, in whole or in part, for any other purposes than to evaluate TONEX's proposal and shall be returned upon request.



I. The above quotes include:

- Discount
- All instructor fees including T & L
- All materials including course book and workshops
- Customization to insure the course is tailored to your specific needs
- Post access to the trainer via WebEx and emails for up to 6 months

II. Duration and Location of Training



- Training would last 2 or 4 Days
- Fremont, NE

III. Proposed Training Dates

- TBD

IV. Cancellation Policy

- **Class registrations are not confirmed until payment is received in full**
- Cancellation within 30 days of class start are subject to 50% cancellation fee
- You may cancel your registration for a class up until 14 calendar days in advance of the class and apply credit to a future class.
- Cancellation within 14 days of class start is subject to 75% cancellation fee.
- Cancellations within 7 days of class start obligates the customer to make payment for the full price of the class
- Schedule changes are subject to fees for shipping, airfare and reservations.

<p>Prepared by:</p>  <p>Howard J Gottlieb TONEX, Inc. Training Program Director Phone #214-762-6673 Fax: 972-692-6829 hgottlieb@tonex.com www.tonex.com</p>  <p><small>EMPOWERED BY KNOWLEDGE!™</small></p>	<p>Approved by:</p> <hr/> <p>Name Printed</p> <hr/> <p>Signature</p> <hr/> <p>Date</p> <hr/>
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SCADA Training | SCADA Course

Why should you choose TONEX for your SCADA Training?

SCADA Training, Supervisory Control and Data Acquisition, is a unique training experience provided by TONEX since 2001. When it comes to the sensitive principles in you need the very best SCADA training courses for your organization. Tonex is synonymous with high-end training courses, specialty workshops and boot camps that focus on information technology, mobile applications and defense. We work with Fortune 500 companies, small businesses and government agencies to deliver the accurate, up-to-date information that is required to excel in the respective field. Our SCADA courses are nothing short of perfection.

Tonex SCADA Training Courses

At this time, Tonex offers the following SCADA System courses:

- SCADA Security Training
- SCADA Training – SCADA Training Courses

We focus on the following points in our SCADA System training courses:

- Principles of SCADA and Industrial Network Security
- Securing infrastructure networks for Smart Grid
- SCADA system components
- Architecture protocol
- Cyber-security
- Provisioning
- Regulatory requirements
- Theory of operations
- How to evaluate potential SCADA benefits

Advantages to Choosing Tonex for SCADA Training

By choosing Tonex for your SCADA training courses, you can expect that all the information learned in class is accurate, relevant and up to date. Our courses are designed by experts in the field, and this allows our workshops to excel in certain topics that only professionals in the field would understand. We also continually update our reading materials, teaching techniques and course offerings to reflect the latest trends in technology. Instead of following the trends, we stay ahead of them to be a frontrunner in the industry.

Our SCADA System training courses follow a specific format that includes the overview, the body of the class and the conclusion, which wraps up with Tonex and industry certifications. Our SCADA training courses are flexible enough that they can be modified to fit the needs of your business so that your employees can focus on the core values of your organization. Browse our catalog of workshops or contact a Tonex representative to find the best boot camps to advance

your career.

Why should you choose TONEX from your SCADA Training?

SCADA Training course provides a thorough technical overview of the principles behind Supervisory Control And Data Acquisition (SCADA), Industrial Network Security, Securing Infrastructure Networks for Smart Grid, and other Industrial Control Systems and SCADA engineering.

SCADA Training course covers the basics of SCADA system components, architecture, protocols, security and theory of operations.

The course also covers how to evaluate potential SCADA benefits of applying the technology to your process application.



Why SCADA Training?

SCADA Training covers requirements architecture, networking, communications and security technologies and standards. Important topics such as architecture, provisioning, cyber-security, regulatory requirements, and the industry technology framework are discussed.

The issues and technologies in this class apply to related industries such as utilities and petroleum. The goal of this class is to provide students with the tools to choose and plan, design SCADA technologies for the smart grid and other utilities.

PLC or programmable Logic controller-supervisory control and data acquisition are discussed as these systems typically control an entire industrial system such as a solar plant system, wind plant system, oil and gas, an waste water treatment plant.

Learn more about:

- SCADA architecture and components
- Industrial Control Systems (ICS)
- Distributed Control Systems (DCS)
- Logic Control (PLC) and PLC Ladder Programming, Programming a CPM Series PLC, Using PLC numbering Binary/Hex/BCD
- SCADA Security: Learn the skills required to plan, direct, operate and manage the cyber security protection for SCADA.
- Design a SCADA Security Policy
- Modbus/TCP network and firewall

SCADA Training Customers include: Aramco, Chevron Angola, Shell, ExxonMobile, PGA Power, City of Dallas, NYCT, City of Los Angeles, Dominion, Verizon, AT&T, NIST, U.S. Army, and DoD.

Who Should Attend

SCADA Training course is intended for new or experienced technical and non-technical professional who need familiarity with the fundamentals of SCADA.

Objectives

Upon completion of the SCADA training course, attendees will gain knowledge on:

- Basic concepts of SCADA
- SCADA Architecture
- SCADA implementations
- SCADA Communication protocols
- SCADA Security
- SCADA Operations and Maintenance

Outline

Introduction to SCADA

- History of SCADA
- Large-scale, distributed measurement and control system.
- Real-Time Monitoring and Control Principals
- Overview of Industrial Control Systems (ICS)
- Overview of SCADA, DCS (Distributed Control System) and (DCS, and Programmable
- Control Components
- Network Components

- Distributed Control Systems (DCS)
- SCADA Systems
- What Can SCADA Do?
- How SCADA Systems Work
- Where Is SCADA Used?
- What's The Value of SCADA?
- An Example of a SCADA System
 - Data Acquisition
 - Data Communication
 - Data Presentation
 - Control
- Introduction SCADA Systems Engineering
- Best Practices for SCADA Security
- Next Generation SCADA Systems
- SCADA System Challenges

SCADA System Overview

- SCADA Subsystems
- SCADA Architecture
 - Hardware Architecture
 - Software Architecture
 - Real-time database (RTDB)
 - Communications
 - Interfaces
- Human Machine Interface (HMI)
- Hardware solutions
- System components
- Remote Terminal Unit (RTU)
- Programmable Logic Controller (PLC)
- Master Station
- Human Machine Interface (HMI)
- Operational philosophy
- Communication infrastructure and methods
- Distributed Control System (DCS)
- IEC 61131-3 Programming Language
- Future trends in SCADA
- RTU/PLC Architecture
- Data Representation Formats
- Real Time Operations
- Requirements and Features
- Typical Features of the RTU
- Packaging Issues and Designs

- PLCs and Industrial Computers
- Open- and Closed-Loop Control Concepts
- Relay Logic and Ladder Diagrams
- Programmable Logic Controllers
- The Fieldbus/Modbus Architecture
- Ethernet and IP Protocols
- MTU/HMI Architecture
- The Master Terminal Unit
- : The Human Machine Interface
- Graphical Display Developments
- Wall Systems; Map Boards and Projection Systems
- HMI/MMI Presentation Sampler

SCADA Systems Operations and Integration

- Application Development
- SCADA System Requirements and Analysis
- SCADA Master-Slave Architecture
- Master Station to Slave Station
- SCADA Data Latency Time
- Analog Real Time Data Format Requirements
- SCADA System Communications Requirements
 - Connections
 - Communication redundancy
 - Direct communications via modem
 - IP Connection
 - Dial-up modem connections
- Types of SCADA Networks
- SCADA Configuration
- SCADA, PLC and DCS
- Distributed networked computing behind that SCADA
- SCADA Network Protocols
- Planning and Managing SCADA Projects
- Specifications; Alternative Strategies
- SCADA Procurement
- Implementation and Commissioning
- Five phases to creating a functional SCADA system
 - The Design of the system architecture
 - The supply of RTU, PLC, communication and HMI equipment
 - The Programming of the communication equipment and the HMI graphic and alarm software programs
 - The Installation of the communication equipment and the system
 - The Commissioning of the system; Systems Integration and Testing

SCADA Systems Evaluation

- How to Evaluate SCADA Systems and Hardware
- Most Important Components of the SCADA System
- Sensors and Networks
- SCADA RTU
- SCADA Master
- LAN in the Master Station
- Overview of TCP/IP and the Ethernet
- Ethernet Networks applied to the Master Station and the Field
- LAN Connectivity; Bridges, Routers and Switches
- Communications Media and Signals
- Wireless Systems
- Modem Types and Features
- Error Detection and Control Methods
- Access Control
- Alarm Handling
- Logging/Archiving
- SCADA Reliability, Redundancy and Safety Issues
- SCADA System Reliability Models
- SCADA Failure Modes
- Instrument and Equipment Interfaces
- Balanced and Unbalanced Wiring Configurations
- RS-485 Bus Architecture Features
- Cross-Over Cables
- Analog Interfaces and Instrument Concepts

SCADA Security and vulnerability

- Security applied to SCADA
 - Encryption
 - Firewalls and Perimeter Security
 - Creating and Populating a SCADA DMZ
 - Field-Level Firewalls in the SCADA Network
 - Access Control and Authorization: Managing Users
 - RADIUS, TACACS and Diameter Authentication Services
 - Intrusion Detection and Prevention
 - Wireless Security Issues
- SCADA Security Incidents
- Overview of Encryption and Firewalls
- SCADA Security Challenges and Solutions
- SCADA Access Control and Intrusion Detection
- Challenges of Wireless in SCADA
- Points of Vulnerability for SCADA
 - The IT Infrastructure
 - Leased Infrastructure; Frame Relay and Other Services
 - The Sensor/Fieldbus Networks
 - Wireless LAN Systems



- Rogue (Undocumented) Dial and Wireless Links
- Infected/Compromised Portable Equipment
- Network Management Systems

SCADA Security Training

Why should you choose TONEX for your SCADA Security Training?

SCADA Security Training course provides advanced SCADA technical overview of the emerging trends, advanced applications, operations, management and security.

We have Providing SCADA and Automation and Security Training and consulting for over 15 years with 20+ man-years of development experience.

SCADA Security Training course covers all aspects of Industrial Control System (ICS) security for several types of control systems including: Supervisory Control and Data Acquisition (SCADA) systems, Distributed Control Systems (DCS) and Other control system configurations such as skid-mounted Programmable Logic Controllers (PLC).



During the course, we also discuss SCADA Characteristics, Security Threats and Vulnerabilities, Threats, Potential SCADA Vulnerabilities, Policy and Procedure, and Platform Vulnerabilities and Network Vulnerabilities.

SCADA Risk Factors such as Standardized Protocols and Technologies, Connectivity, Insecure and Rogue Connections, SCADA Public Information, SCADA Possible Incident Scenarios and Sources of Incidents are also discussed.

Attacking critical infrastructure control systems such as SCADA requires planning, passive monitoring, intelligence gathering, active attacks and the use of alternative access methods.

Details about dozens of SCADA, PLC, ICS vulnerabilities will be discussed in case studies with proof-of-concept exploit code.

Some of the highlights of the SCADA Security Training:

- Understand concepts behind Industrial Control Systems (ICS) and SCADA Security
- Learn about DCS, SCADA and Industrial Control Systems technology, Infrastructure, instrumentation, HMI and Data Historians
- SCADA and ICS Characteristics, Threats and Vulnerabilities
- SCADA and ICS Security Program Development and Deployment
- SCADA Network Architecture
- SCADA Security Controls
- Learn Passive and Active Techniques
- Explore the impact of Wireless communications on SCADA System Security Testing
- Explore SCADA System Security Testing with Active Techniques
- Understand SCADA vulnerabilities and different techniques behind exploiting SCADA Systems
- Understand how SCADA defense techniques and procedures work
- Identify the weak links and challenges in SCADA cybersecurity
- Review the available solutions and standards for secure SCADA architectures
- Examine the state of policies on data privacy and Internet security and their impact on SCADA
- Define a “To Do” list of action items to secure the SCADA systems

Learn more about the following aspects of SCADA, ICS and DCS Security:

- Understanding Control System Vulnerabilities
- Understanding and Identifying SCADA and ICS Vulnerabilities
- SCADA, Industrial Control System (ICS) and Distributed Control Systems (DCS) Exploitation
- Securing and Protecting Industrial Control Systems (ICS)
- ICS, DCS and PLC Penetration Testing, Exploiting and Vulnerability Assessments
- Hacking SCADA using Nmap, Nessus and Metasploit
- Hacking Remote Web Servers
- SCADA SQL Injection Attack
- Man-in-the-Middle Attack on SCADA
- Secure Socket Layer (SSL) Stripping
- Assessing the Security of ICS Systems
- SCADA Risk Identification
- SCADA Risk Classification and Threat Modeling
- Typical SCADA and ICS Vulnerabilities
- Consequences of an SCADA and ICS Attacks
- SCADA Security Controls
- Auditing and Assessing SCADA Security
- SCADA Security Audits

Who Should Attend

This course is suitable for anyone who needs to understand and deal effectively with advanced

SCADA issues:

- SCADA Systems Personnel
- Engineers and Operations
- Process Engineers and Managers
- Operations and Maintenance Managers, Engineers and Technicians
- Hardware and Instrument Specialists
- Business System Analysts Who Support SCADA Interfaces
- System and Application Programmers
- Project Managers
- Telecommunications and Wireless Support Personnel
- Control engineers, integrators and architects when designing and implementing secure SCADA and/or ICS
- System administrators, engineers and other IT professionals when administering, patching, securing SCADA and/or ICS
- Security consultants when performing security assessments of SCADA and/or ICS
- Managers responsible for SCADA and/or ICS Researchers and analysts who are trying to understand the unique security needs of SCADA and/or ICS Vendors developing products that will be deployed in SCADA and/or ICS

Objectives

Upon completing this course, students will be able to:

- Explain the basic SCADA operations
- Explore Advanced SCADA Systems
- Review telecommunications services related to SCADA
- SCADA Network Operations and Management
- Describe SCADA security architecture
- Describe the security issues with a SCADA system
- Design a SCADA Security Policy
- Look at access control to field devices with Microsoft Active Directory
- Review interception and analyzing Modbus/TCP network traffic with a sniffer
- Understand unauthorized commands to field device
- Setup and configure a Modbus/TCP firewall
- Review SCADA security policies
- Understand Firewall architecture, DMZ, and rulebases
- Review SCADA protocol security issues
- Understand Securing field communications
- Explore user authentication technologies and integration with SCADA applications
- Review access control principles and implementation
- Look at active Directory integration with SCADA applications
- Explore how to Detect cyber attacks on SCADA systems
- Explore vulnerability scanning

- Review security patch management
- Review anti-virus protection and management
- Review SCADA security standards

Outline

INTRODUCTION TO SCADA OPERATIONS AND SECURITY

- Industrial Computing Applications and SCADA Systems
- Telecommunications Services
- Types of SCADA Networks
- SCADA Network Operations and Management
- Communications Media and Signals
- SCADA Reliability, Redundancy and Safety
- Planning and Managing SCADA Projects
- SCADA Technical Operations'
- SCADA Project Management
- SCADA Characteristics, Threats and Vulnerabilities
- Comparing SCADA and IT Systems
- Threats

INTRODUCTION TO SCADA VULNERABIITIES

- Potential SCADA Vulnerabilities
- Policy and Procedure Vulnerabilities
- Platform Vulnerabilities
- Network Vulnerabilities
- Risk Factors
- Standardized Protocols and Technologies
- Increased Connectivity
- Insecure and Rogue Connections
- Public Information
- Possible Incident Scenarios
- Sources of Incidents
- Documented Incidents

SCADA SECURITY PROGRAM DEVELOPMENT AND DEPLOYMENT

- Business Case for Security
- Potential Consequences
- Key Components of the Business Case
- Resources for Building Business Case
- Presenting the Business Case to Leadership

- Developing a Comprehensive Security Program
- SCADA Security Network Architecture
- Firewalls
- Logically Separated Control Network
- Network Segregation
- Dual-Homed Computer/Dual Network Interface Cards (NIC)
- Firewall between Corporate Network and Control Network
- Firewall and Router between Corporate Network and Control Network
- Firewall with DMZ between Corporate Network and Control Network
- Paired Firewalls between Corporate Network and Control Network
- Network Segregation Summary

Recommended Defense-in-Depth Architecture

- General Firewall Policies for SCADA
- Recommended Firewall Rules for Specific Services
- Domain Name System (DNS)
- Hypertext Transfer Protocol (HTTP)
- FTP and Trivial File Transfer Protocol (TFTP)
- Telnet
- Simple Mail Transfer Protocol (SMTP)
- Simple Network Management Protocol (SNMP)
- Distributed Component Object Model (DCOM)
- SCADA and Industrial Protocols
- Network Address Translation (NAT)
- Specific SCADA Firewall Issues
- Data Historians
- Remote Support Access
- Multicast Traffic
- Single Points of Failure
- Redundancy and Fault Tolerance
- Preventing Man-in-the-Middle Attacks

SCADA SECURITY CONTROLS

- Management Controls
- Risk Assessment
- Planning
- System and Services Acquisition
- Certification, Accreditation, and Security Assessments
- Operational Controls
- Personnel Security
- Physical and Environmental Protection
- Contingency Planning
- Configuration Management
- Maintenance

- System and Information Integrity
- Media Protection
- Incident Response
- Awareness and Training
- Identification and Authentication
- Access Control
- Audit and Accountability
- System and Communications Protection
- Programmable Logic Controllers (PLC)
- Industrial Sectors and Their Interdependencies

WIRELESS SECURITY APPLIED TO SCADA

- Overview of Current Wireless Technologies
- 802.11, 802.15 and 802.16 Technologies
- Overview of Wireless Security
- WEP
- TKIP and the WPA/WPA2
- IEEE 802.11i
- Authentication, Encryption, and Integrity Methods
- Cellular/Mobile Interworking
- LTE application in SCADA